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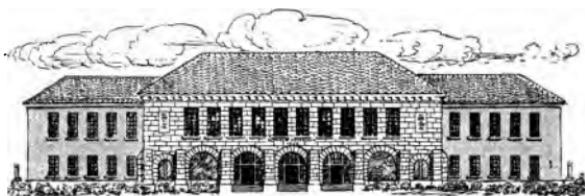
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HOW TO TEACH *the* PRIMARY GRADES

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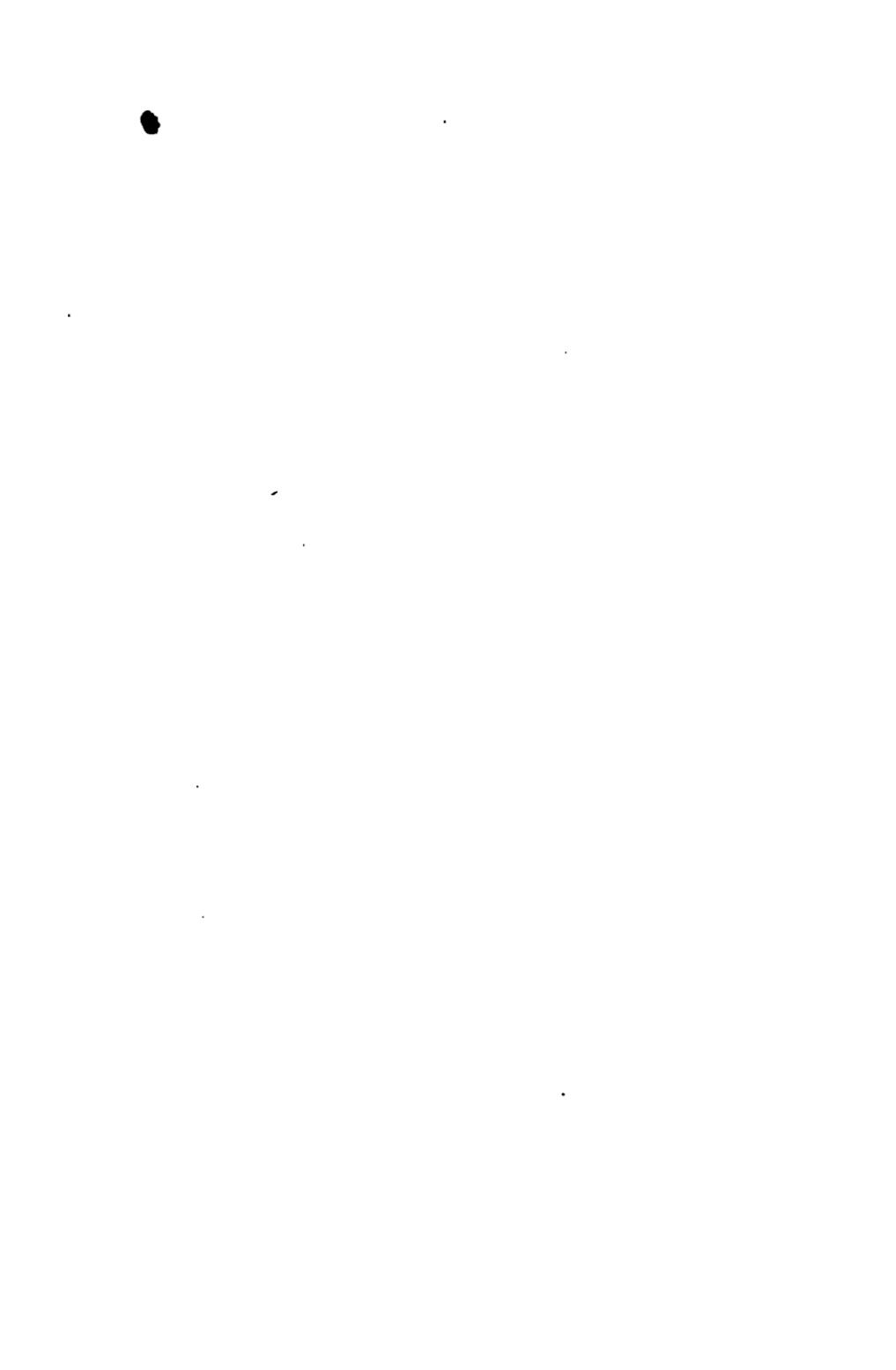


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HOW TO TEACH THE PRIMARY GRADES

BY

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ST. LOUIS, MO., U.S.A.
1922

A. FLANAGAN COMPANY
CHICAGO

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305168

PRINTED IN THE UNITED STATES OF AMERICA

PREFACE

This book is the outgrowth of a number of years' experience in helping prepare teachers for work in primary grades.

After a brief discussion of the aim of education and certain of the underlying principles which run through all the work, the author attempts to show how these principles may be worked out in practice in the primary grades.

An attempt has been made to discuss each subject in a practical and scientific way followed by concrete application. Each step in the plan work has for its basis the principles of psychology which apply to the child mind. Each of the many plans given has been tried out again and again in actual schoolroom practice.

The obligations of the author are too numerous to mention. Where direct quotations have been used, due acknowledgment has been made; but it was impossible to acknowledge many of the minor points used in the book, as these were often taken unconsciously from books and magazines. The author has read every book and article bearing on the subject that was accessible.

Acknowledgment is made of the assistance given by the colleagues of the author; namely, Dean Hodge Mathes, President Sidney G. Gilbreath, Miss Katherine McSpadden, Miss Tompsie Baxter, Prof. F. W. Alexander, Prof. D. S. Burleson, Prof. Max Schoen, Prof. W. B. Coggin, Miss Ina Yoakley, Prof. C. E. Rogers. Supt. Riley Haworth, and Miss Pearl Bennett.

NELLIE COOPER

Johnson City, Tenn.

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HOW TO TEACH THE PRIMARY GRADES

CHAPTER I

AIMS AND PRINCIPLES UNDERLYING PRIMARY EDUCATION

AIMS

General Aim. In beginning the study of the educational process as it applies directly to the primary grades it will prove an economy of time and effort if the desired end to be attained is considered. Among the important educational aims which have been pointed out are culture, knowledge, harmonious development, utility, and the social aims. Of these the social is now accepted as the standard. The predominating purpose of this aim is to make the individual socially efficient; that is, to develop and to train such of his faculties and capacities as will enable him to accomplish his best work in the world.

Special Aims. An analysis of this general aim will reveal that it is made up of a great number of minor aims.

1. The first of these minor aims to be considered is that of the proper development of the body. It is an established fact that the body has a marked influence over the mind. Too often, the laggard in the class is

the poorly-nourished and poorly-developed child. It is found, also, that the well-nourished and well-developed child receives impressions with more ease and retains them longer; is better able to analyze and classify these impressions; and is more likely to make use of them in daily life.

Not only does the well-developed body help the mental powers involved in the learning process, but it helps to make living a thing of joy. The healthy individual rises each morning with a song in his heart and goes joyfully through the duties of the day.

A well-developed body is the result of proper food, proper exercise, and fresh air. Not only should the teacher see that these conditions prevail in the child's school life, but she should make suggestions regarding suitable conditions for the home life. Proper exercise may be secured through work, play, rhythmic gymnastics, and exercises for correct breathing.

2. A closely allied aim is that of training the child to rational observance of the laws of health. Medical science teaches that all the ills of the body except accidents may be traced to disregard for certain of these laws. It should be a vital part of the child's education to train him to obey these laws. This training may be given through the use of stories, pictures, talks, and games.

3. Another aim is to establish certain desirable habits; namely, intelligent curiosity; clear, systematic thinking; self-reliance in the solution of problems; organizing knowledge; judging values; taking the initiative; and certain social habits.

a. Intelligent curiosity is a desire to know about things which are worth while. Curiosity is the mother

of all knowledge, inasmuch as a desire to know is a prerequisite to the gaining of knowledge. Curiosity may be awakened by the use of questions, stories, pictures, and objects.

b. The ability to think clearly and systematically is largely a habit—a habit due to training. Practically every school activity should be utilized in establishing this very desirable habit.

c. The habit of self-reliance in the discovery of problems and in the solving of these is of such importance as to command the individual attention of every teacher. Many people go through life without realizing that its daily activities are full of vital problems which should be solved. The mental life grows and develops through the solving of these many problems.

d. Closely connected with the habit of self-reliance are the habits of organizing knowledge and of judging values. In the old type of school the child was taught facts, and there the matter rested. But the teacher of the present day realizes that if the knowledge gained is to be translated into terms of daily life, the child must be trained to judge its value, and then to organize it in a systematic way. If the average child is to have this ability, it must be the result of definite training—a training which may be accomplished through the ordinary schoolroom activities.

e. The development of the capacity for taking the initiative is a most important part of the child's training. By initiative is meant the power to work out things for oneself rather than to depend on others. This is a quality that develops into leadership in both thought and action. While it is doubtless true that there are a few persons who do not possess the germ of this capacity,

it is also true that the greater number possess it in a varying degree. It is the work of the teacher to discover and develop it by making use of every opportunity which the school activities offer.

f. If a person is to accomplish his best work in the world he should be trained to the social habits of thoughtfulness, co-operation, honesty, promptness, industry, obedience, and patriotism. These habits may be established in part by the use of stories and ethical talks.

4. Many people lose much of the beauty and happiness of life because they have not been trained to see the wonders in nature and in the industrial life of the world. One of the teacher's aims should be to develop within the child the "seeing eye" and the "understanding mind" for all the world of nature and of commerce. This may be accomplished through the regular lessons in nature study, social life, and literature.

5. The teacher should aim to develop within each child the ability to gain knowledge and pleasure through reading. The choice of literature which is to be read and the habit of translating the thought gained into terms of daily life are matters of training—a training for which the teacher must usually assume the entire responsibility. Consequently, she should definitely plan to direct into worthy channels the child's growing ability to read.

6. The outward expression of thought or emotions is an instinct which should be developed to its fullest by training the child to forceful expression through as many different channels as possible; namely, through spoken and written language, music, manual arts, fine arts, and dramatic action.

7. The capacity for appreciation is one which adds very materially to the joy of living. As this is a capacity

which is very susceptible to training, it is essential that the teacher plan definitely for its proper development. The child should be trained to appreciate the truly humorous, the beautiful, and the noble qualities in human nature and in the social relations of life. Abundant material for this training will be found in literature, nature study, social life, and history.

8. Growth in the moral, the mental, or the industrial life is largely the result of an ideal or goal which a person desires to attain. The person who has no ideal or goal accomplishes very little, since he has nothing to work toward. The teacher should help the child to establish definite childlike ideals of conduct, of study, and of industry. These ideals may be found in the social world round about, in literature, and in history.

9. A careful examination of these minor aims will reveal that the trend or leading thought is that of preparing the child for social service. It is becoming evident that his attitude toward his fellowman is largely due to training—that he will be either selfish or unselfish according to this training.

This thought should be constantly in the mind of the teacher and she should plan to develop within the child ideals of service to parents, brothers, sisters, relatives, friends, and playmates. These ideals should govern practically all his school activities as well as those of his home life. He should be trained to compete honorably with his neighbor, but the emphasis should be on the training which will enable him to work for the good of the group. He should be taught also to consider the results of his actions.

Numerous opportunities are to be found in the daily routine of every schoolroom for training in co-operation

and service, but too often these natural opportunities are overlooked, and the child is trained only to the habit of striving to outrank his classmate rather than to serve him.

The teacher should aim not only to develop the desirable traits and tendencies but also to inhibit certain undesirable ones. Any trait or tendency whose development would be harmful to the group should be inhibited.

It is obvious that the truly successful teacher should be a close student of the child-mind from both a theoretical and a practical standpoint.

PRINCIPLES

Through a scientific study of the learning process, it has been found that there are certain laws or principles by which knowledge or skill is acquired. A practical study of these laws or principles and of their application should enable the teacher materially to lighten her work. It should also result in a great saving of time and energy for the child.

1. One of these laws is that known as *Sense Perception*; namely, that no knowledge enters the mind unless it comes through one of the five senses. Any knowledge dealing with sound alone enters the brain only through the sense of hearing. This is illustrated by the difficulty involved in teaching deaf people to talk. Their inability to place their tones properly is owing to the fact that they have no sense of hearing, hence no real concept of sound.

The conclusion for the teacher is that every new idea should be presented through that sense by which it should naturally reach the brain. The more senses involved in the presentation of an idea, the more perfect will be its concept. The child who has looked at an apple,

handled an apple, smelled an apple, and tasted an apple has a fuller and clearer concept of it than the one who has experienced it through only one sense.

2. Closely allied with this law is that of *Concept Formation*; namely, that general concepts or general ideas are gained only through personal experience with the individual elements which go to make up the concept or idea. Before a complete concept or idea of a dog is formed, the child must see big dogs, little dogs, medium-sized dogs, white dogs, black dogs, brown dogs, spotted dogs, and dogs of many different breeds. Not only must he see them but he must watch them eat, play, run, and hunt, and hear them bark. In other words, no one can give him a complete concept of a dog. This can come only through personal experience—an experience which is to be made as broad as practicable.

The conclusion for the teacher is that where practicable, the child should be permitted to work out all definitions, rules, principles, and ideas in general for himself. Her work is to bring him into personal contact with the experiences necessary to these ideas and then to train him to use these experiences in forming general ideas.

Where it is not possible to supply all the necessary experience at first hand, pictures will aid greatly if used wisely. In using pictures, the teacher should guard against the probability of the child's gaining a faulty idea; for instance, a group of children who had seen only the pictures of sheep formed the idea that real sheep were only one inch high.

3. The *Law of Apperception* deals with the inability of the mind to comprehend a thing which is absolutely new. When the mind comes into contact with any new

idea, it immediately begins to seek familiar elements. If these are not forthcoming, either the problem is given up or help is sought in acquiring the experience which will furnish the key to the situation. Until this new knowledge is made to fit into some previous experience it is not comprehended by the mind.

The conclusion for the teacher is that not only must she know the subject-matter thoroughly, but she must also know the past experiences of the child in order to be able successfully to dove-tail the new with the old. In other words, she must be ready to supply the necessary experience should it be lacking.

If the reading lesson is about life in the mountains, the child must be given a concept of what a mountain is before he can really appreciate what life there would mean. Or if he is to be taught long division, he must have had sufficient experience with addition, multiplication, and subtraction to enable him to comprehend the process in hand.

4. The ability of the mind to retain and to recall its past experiences is known as the *Law of Memory*. A person takes a pleasure trip and for many weeks and months after he has returned to his home he can recall every incident of the trip.

This ability is based on three factors; namely, (a) native power of retention, (b) the number of associations made, and (c) the systematic organization of these associations.

Although the first factor is very fundamental and one which the teacher must consider in dealing with individual cases, it is the one over which she has no control, consequently, it will not be discussed in this connection. The discussion of the factors dealing with the association

of ideas should logically come under the Law of Association.

5. The *Law of Imagination* deals with the ability of the mind to reproduce past experiences and then to utilize these images in dealing with new situations or in forming new concepts or ideas. The child who sees the rag doll as a beautiful baby is using imagination, or the inventor who constructs some new device from his mental images is using a very high form of constructive imagination.

Without imagination history and literature would be void of thought; the ability to reason would be seriously hampered; there would be no invention; and mental development would be hindered in numerous ways. In presenting new ideas the teacher should develop that imagination of the child which is pertinent to the point in hand by helping him to recall all past experience that will clarify the present situation.

6. A law which is attracting much attention in the discussions of present-day educational problems is that known as the *Law of the Aim or Motive*. The gist of this law is that a task is accomplished more quickly and with more ease if the mind is held to the task by a definite purpose. The child who learns certain facts of addition in order that he may play a game which utilizes these facts, will accomplish the task with less expenditure of nervous energy and in less time than the one who has no reason for learning them other than that they are just a part of the school work. Likewise, the child who is learning to write and to spell the words necessary for writing a letter to Santa Claus, will accomplish the task with much more ease than the child who learns to write and to spell without any apparent need.

McMurry says that to provide a motive is the first and greatest factor in all education, as it paves the way for independent thinking and initiative. ("Elementary School Standards.")

The aim or motive may be one of two types: (a) the desire to accomplish the task because of some immediate need, or (b) the desire to solve a problem that has arisen. The immediate need will probably be the predominating motive with the young child. He learns to read so that he may read stories; he learns the number combinations so that he may keep the score in a game; he learns to write and to spell so that he may immediately write a letter.

The desire to solve a problem as a source of motive will be discussed under the Law of Self-Activity.

7. Knowledge cannot enter the mind without brain activity on the part of the learner, and the more active the brain cells, the greater will be the stock of knowledge. The teacher may read a poem to the child, but unless the child thinks about it, it will mean nothing to him, and the more he thinks it over the more it will mean.

This *Law of Self-Activity* is one of the most important of the laws of the learning process, since the faculties of the brain are stimulated and given opportunity for development only through exercise. This activity of the brain may be aroused by the presentation of a problem or a thought-compelling question.

The teacher should not confuse the thought question with the fact question. "What does the rabbit eat?" is a fact question, while "Why is the color of the gray rabbit a protection to him?" is a thought question.

If the problem is to be vital to the child, it must be one that is clear and definite and one that he deems

worthy of solution. The problem or thought-compelling question should dominate every lesson of the day. The wording of the problem should not be left to chance, but should be carefully and thoughtfully planned.

8. The task which arouses the active interest of the mind is accomplished with less expenditure of energy and time than that to which the mind must be forced. The child who is interested in the arithmetic lesson will accomplish very much more, and will be far less tired than the one who must be forced to give his attention.

The *Law of Interest* deserves the most careful consideration on the part of the teacher. The child is interested in moving things, animals, rhythm, music, stories, pictures, drawing, play, manipulation, construction, bright colors, change, novelty, emulation, and ownership.

If possible, the interest should be within the process itself, though it is sometimes necessary to use incentives and devices to gain this interest; but as early as possible this artificial interest should develop into a natural one. As previously suggested, the strongest interest is the realization of a need.

9. Knowledge does not enter the mind unless the attention is directed toward the issue. The child does not learn to recognize word symbols unless he directs his attention toward the process of word recognition.

This *Law of Attention* is so closely allied to that of interest, that the two are almost identical, since attention is given for only a very brief time to a process that does not contain elements of interest. This attention should be spontaneous, inasmuch as forced attention brings very poor results, a part of the effort being given to the act of compelling oneself to attend. This produces fatigue and results in a lack of thoroughness. Children give

attention only so long as the situation in hand is more interesting than some other. Consequently, the teacher must so plan her class procedure that the work will prove interesting throughout the recitation period.

10. Whenever a thought enters the mind there is a tendency for it to seek outward expression through some form of *Motor Activity*. If the thought of running enters the mind, there is an unconscious contraction of the muscles used in the running process.

Only as a thought finds outward expression or modifies other thought already in the mind, is it of real value. Consequently, the teacher should so plan that all the thoughts gained in the school life are translated into motor activity. Her principle should be that no teaching is complete unless its produces some motor response. In other words, impression is a failure if there is no expression.

The forms of motor expression may be verbal speech; written speech; bodily action, such as gestures, facial expression, contraction of muscles; dramatization; hand-work; cooking; sewing; fine arts; or any other form by which thought is expressed.

11. When an idea is associated with other ideas, a connecting link is formed, and the recall of the one is followed by the appearance of those connected with it; for example, the baby connects the act of having his hair brushed with going from the home.

The probability of the recall of an idea is strengthened with every association made; therefore, the more natural associations made the better, for if one of these associated ideas does not appear in consciousness another is almost sure to do so. This *Law of Association* is a very important factor in the memory process.

The logical arrangement of ideas is another important factor in the memory process. If facts are grouped according to similarity in thought and principle, and so that one fact naturally leads to the succeeding one, the possibility of recall is materially increased. If the teacher will see that the idea she wishes recalled is associated in a logical way with other ideas, it will result in a more effective type of memory.

12. The Laws of Memory and Association are important factors in the *Law of Habit-Formation*.

This law may be briefly stated thus: every act produces some change in the nervous system, and there is always a tendency to repeat this act. A response thus repeated a number of times has a tendency to become permanent or to be made without the conscious attention of the mind. When it reaches this plane it is known as a habit.

This Law of Habit-Formation is very important, since a large proportion of the acts of the physical and mental life of a person are on the plane of habit. The more processes relegated to the plane of habit, the broader will be the opportunities for initiative in thought and action.

13. The *Law of Original Nature* is that the learning process is conditioned by the native capacities of the brain. Education means the development of the brain cells given at birth, since cells are never created after birth.

The original nature of the child consists of certain instincts and capacities. The successful teacher will make a close study of the child and strive to work with the helpful instincts rather than against them. She will seek to discover his natural capacities and concentrate

effort on the one hand upon the proper development of these capacities and instincts, and on the other upon the inhibition of harmful ones.

As previously stated, the more important of these instincts with which education is concerned are mental activity, emulation, imitation, defiance, ownership, sociability, affection, love for outdoor life, interest in animals, admiration of bright colors, enjoyment in display, collecting, manipulation, play, rhythm, and the dramatic instinct.

Some of the most fundamental capacities are management of things, men, concrete ideas, abstract ideas, symbols; the capacities of self-control, thoroughness, originality, co-operation, leadership, productive imagination, and concrete learning.

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CHAPTER II

LESSON TYPES IN PRIMARY GRADES

Under the old teaching regime there was only one type of lesson—the test or examination lesson. But as the aim of education has developed and broadened, the work of the teacher has become much more comprehensive than that of an examiner. She must train the child to proper habits of thinking, of study, of appreciation, of co-operation, of service, and to the many other habits specified in the aim of education. Many of these habits may be developed through the several types of lessons; namely, the study lesson, the inductive lesson, the appreciation lesson, the drill lesson, the recitation lesson, the review lesson, and the test or examination lesson.

1. **The Study Lesson.** The average student in the university, college, normal school, high school, and elementary school wastes a very large part of his time and effort. This waste is chiefly due to a lack of training in the correct methods of study. The ability to study in the proper way is not an inheritance, but is a matter of training—a training that should begin in the kindergarten, and continue until skillful methods of study are firmly established.

One of the first things for the teacher to consider in her plan for a study lesson is her motive. This should be to direct the child's effort in such a manner that he may acquire suitable habits of study; that is, habits of

independence, of initiative, and of clearness and system in thought and action.

The next steps will be to consider the most effective way of arousing his interest in the lesson to be studied; of helping him to discover the problem of the lesson; of training him to select the best methods of solving this problem; and of overcoming the difficulties.

As study means the solving of a problem, the problem is a very essential part of the lesson. It has been previously shown that much more is accomplished when the mind is conscious of a definite aim or problem. Consequently, the first step in the class procedure is to make the child conscious of a definite problem.

If the problem is to be a vital one to him, it must be one that touches his daily life, and one that he considers worth solving. Often it will develop as a part of a previous recitation, or it will arise in connection with other school activity. If it does not appear in either of these cases, the subject-matter should be carefully studied by the teacher to find what it offers in the way of a problem.

The difficulties in a lesson will usually be of two types: those which the child can solve alone and those which he cannot solve except with assistance. It will require knowledge and good judgment on the part of the teacher to foresee these difficulties and to distinguish between the two types. She should ask herself the following questions: First, "What has the child within his experience that should help him to overcome certain difficulties?" If the difficulty is a hard word, he may know the phonetic sounds of which the word is composed. Second, "How am I to train him to independence in the discovery of this necessary experience?" If the

hard word is phonetic, the teacher should lead him to analyze it into its phonetic elements and thus to discover that he can sound it. Third, "With what experience must he be supplied in order to overcome other difficulties?" Fourth, "What is the most scientific way of supplying these experiences?" An attempt has been made to answer these question through the methods of presenting the different subjects.

In the study lesson, especial attention should be given to the varying abilities of the members of the class. If necessary the slow child should be given individual and shorter assignments, and the quick child should be given extra assignments.

2. The Inductive Lesson. Very often the study lesson is of the type commonly known as the inductive lesson. This is the lesson based on the principle of concept-formation in which the child is led to discover things for himself. Through the study of individual cases, he works out definitions, rules, and principles for himself. The teacher does not tell him that two and two are four, but allows him to manipulate objects until he discovers it for himself. She does not give him the rules for letter writing, but guides him in the study of real letters until he discovers these rules. To some, this would seem a long process, requiring more time than the average child can give, but it is the one that must actually take place in the child's mind before he fully comprehends a thing and before it has become a part of his practical mental equipment. Consequently, time is saved by consciously training him to the best methods of working out things for himself.

The first step in the procedure is to present a problem which is worth solving and which the child really de-

sires to solve; for example, "How shall I begin the letter which I am going to write to John?"

The material or subject-matter that is to be examined in the solving of the problem must be carefully selected. It must contain the accurate facts which are to enable the child to arrive at a conclusion. These facts should not be given in an obscure way, but should be within his comprehension. If the problem is to discover how to begin a letter, the supply of letters to be examined should be typewritten and the headings should contain words which are likely to be familiar to him.

It is not sufficient for him to study a single letter, but he should examine and compare a great number until the fact which is being developed becomes an actual experience within his thoughts.

Only one point should be developed at a time; for instance, in a letter the first thing to be written is the name of the city and state in which the writer resides.

The summary, or summing up of the rule, principle, or definition developed should form a regular part of the inductive lesson. If the correct way of writing the heading of the letter has been developed, the teacher may ask, "What is the first thing we write in a letter?" After a principle or rule has been developed, it should be immediately followed by its application to a problem of life.

3. The Drill Lesson. The drill lesson is one the purpose of which is to establish the habit of making certain responses; for example, the use of the rules and principles developed in the inductive lesson must be made a habit.

As previously stated, the more responses a person relates to the plane of habit, the more opportunities the

mind will find for thinking out problems and for expressing originality and individuality in thought and action.

The drill lesson should be of especial interest to the primary teacher, as her work is largely that of habit formation—the habit of making fixed responses in the fundamental operations in arithmetic; the habits of form, position, and movement in writing; the habit of writing the letters of a word in a certain order in spelling; and the habit of using correct expressions in oral and written language.

There are certain factors or principles which enter into any habit-forming exercise. These may be briefly given as (a) a motive or desire to form the habit; (b) a clear idea of the desired response or action; (c) attentive repetition of the desired response or action; (d) no exception ever to occur in the response or action; and (e) frequent reviews.

a. **Motive.** The attitude of the child toward the desired habit is of great importance. Considerable time and energy are wasted in drill work because he does not see the use or feel the need of the habit. If he has a strong desire to form the habit because he feels the need of it, the task is, comparatively speaking, half finished. The stronger and more vital the motive, the more concentrated will be the attention and the sooner will the desired result be attained.

b. **Clear Idea of the Response.** First impressions are usually the deepest and the most lasting. Consequently, it is very important that the first impression of the response or action be clear. Only a small amount of subject-matter should be used, since too much will tend to confuse the child and prevent a clear first impression.

c. **Attentive Repetition.** After the child has a clear impression of the response to be drilled on, the next step is that of repetition with full attention. Concentrated attention adds intensity to the impression and accomplishes the desired results much more quickly. The teacher should bear in mind the fact that a little child is capable of giving concentrated attention to even an interesting object for only a short period of time—that unless there is a change the attention is given elsewhere. She should plan to make the drill period short and snappy, with variety in procedure, and should see that there is no waste of time but that each child gives his entire attention. It is a law of human nature to desire to continue that which brings satisfaction and pleasure, and to avoid that which gives annoyance and pain. Therefore, the teacher should plan, in so far as possible, to make each repetition bring some form of satisfaction and pleasure. This may be either physical, emotional, or intellectual.

Other things being equal, the more interesting the associations made in a drill lesson, the more possibilities will there be for recall, and the more permanent will be the habit. Therefore, the teacher should plan for as much variety as possible in the manner of conducting the drill.

d. **No Exceptions.** Another important principle is never to allow an exception to occur in giving the desired response. If the drill is on the fact that two and two are four, the child should never be allowed to say that two and two are five. The wrong response not only weakens the possibility of the correct one but creates a tendency to repeat this incorrect response. The child should be trained to avoid all tendencies to guess and

should be taught to be sure of the correctness of his response.

e. **Reviews.** If a habit of response is to be firmly and permanently fixed, a single period of drill is not sufficient, but systematically arranged drills should occur from time to time. At first, the drill should occur at frequent intervals; for instance, every day. The time elapsing between the periods should gradually lengthen until they are discontinued altogether; for instance, every other day, twice a week, once a week, once every two weeks, once a month, once every two months, once a year.

4. **The Appreciation Lesson.** The appreciation lesson is one in which the aim is to develop the power to appreciate the beautiful, the noble, and the humorous in the social relationship, nature, art, music, literature, and the industrial world. This power of appreciation does more, perhaps, to bring joy into life than any other one phase of education.

Experience teaches that what one appreciates is a matter of training. A person enjoys the music to which he is accustomed; he loves the literature which he has had constantly presented to him; or he loves the pictures which have been a part of his daily life.

In training for appreciation in music, literature, art, nature, social life, and other fields, the teacher should begin with the simple things and gradually lift the child to a higher plane of appreciation. In literature she will begin with the stories and poems which most appeal to him at that period; she will then select those of more literary merit but similar in content for the succeeding attempts. Thus she will gradually lead the child to love and to appreciate the higher forms of literature.

The attitude of the teacher toward the material is of paramount importance. She should appreciate to the fullest, else she cannot arouse the desired emotion within the child. She should avoid allowing her emotions to dominate the situation and thus force her view-point on the child.

The child should be encouraged in the free expression of any emotion or idea which comes to him in the study. He should be trained to study the different parts or situations and choose those which especially appeal to him.

5. The Review Lesson. The review lesson is a recall of old subject-matter in a new way. This makes new associations which should increase the chances for future recall. Not only are the chances for recall more certain, but a better organization of subject-matter is effected. This increases the possibilities of its functioning in actual life.

The review lesson, which may also be an examination or test lesson, should form a part of every recitation, inasmuch as the new knowledge gained should be constantly related to that already learned.

6. The Recitation Lesson. This is the type of lesson in which the time is devoted to a report and a discussion of the problem which has been assigned for study. It is through this discussion that the teacher helps the child to clarify and to arrange his ideas systematically. He should learn not only to systematize his knowledge but he should be given opportunity to develop his power of expression, his initiative, his individuality, his judgment, and his power of independence in thought and action.

REFERENCES

STRAYER, A Brief Course in the Teaching Process
EARHART, Types in Teaching
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CHAPTER III

THE LESSON PLAN IN PRIMARY GRADES

The day of haphazard teaching when the teacher called the pupils to class, borrowed a book from one of them, and then proceeded to examine their ability to recite verbatim the subject-matter of the designated lesson, is a thing of the past. In the evolution of teaching methods, it has been revealed that this is a most wasteful procedure—wasteful not only in time and energy but in results as well. The teacher who has no definite idea of what she is to do or of the best methods of doing it, will accomplish very little.

If the results desired in a lesson are secured without an unnecessary outlay of time and energy, the class procedure must be carefully and definitely planned. This will enable the teacher to go before her class with a well defined idea of the content of the lesson, and a clear idea of what she expects the child to gain through the lesson. It will systematize the work, direct effort so that the desired results will follow, save time and energy, insure emphasis on the important points, prevent wandering, increase the self-confidence of the teacher, and inspire the confidence of the child.

It is doubtful if a teacher ever reaches the point where it is unnecessary to plan the day's work. It takes this re-planning to stimulate her own effort as well as that of the child. A much-used plan is likely to become dry and monotonous.

Curriculum. The discussion of the curriculum should be pertinent to the lesson plan, as the selection of subject-matter is an important part of the primary teacher's work. No phase of education has undergone more radical change than that of the curriculum. According to modern educational thought, the predominating elements in the curriculum should be the facts and activities which begin with and are conditioned by the daily life of the child. In other words, the schoolroom activities should be near enough to his vital interests to make him feel their worth and to enable him to apply them in his daily life. The real test of education should be the difference it makes in daily life.

McMurry says, "Whatever cannot be shown to have a plain relation to some real need of life, whether aesthetic, ethical, or utilitarian in the narrow sense, must be dropped."¹ The application of this principle would do more to increase the efficiency of the schools than any other one thing.

Subject-Matter. The first prerequisite to the lesson plan is a thorough knowledge of the subject-matter. Many primary teachers fail because of the almost universal belief that the subject-matter of the primary grades should not require study on the part of the teacher. Many of the lessons in reading and literature will require concentrated study in order that the teacher may discover the attitude and purpose of the author, and that she may become imbued with the emotions and sentiments of the selection. Many of the lessons in nature study and social life will require careful study in order that the facts may be organized in a systematic way.

¹Advisable Omissions from the Elementary Curriculum.—Ed. Review.

Teacher's Motive. Another phase of the lesson plan which is closely linked with the subject-matter is that of the teacher's motive. Just what is the specific thing that is to be accomplished through the use of this subject-matter? What are the points to be stressed? Is it to increase skill or to form certain habits? Is it a lesson to develop knowledge or to develop appreciation? Whatever the motive, it is important that she determine definitely in advance of the class period just what she expects the child to gain through the lesson.

Outline. Where a lesson or a lesson unit deals with more than one fact, a better organization may be effected if the subject-matter is outlined. A well organized outline will prove very helpful in many of the lessons in language, nature study, and social life. This outline will serve as a guide to the teacher, enabling her to emphasize a few large points rather than waste time on unimportant details.

In making an outline the teacher should consider the order which will be the most effective from the standpoint of the child's interest. Very few points should be attempted in any one lesson, otherwise it will close leaving the child with only a hazy idea of the facts involved.

Child's Motive. If the interest and attention of the child are to be of the best type, they should be based on his conscious desire to do the work. It would not be impertinence should he demand to know why he must do the thing required. It is one of the problems of the teacher to make him see and feel the practical reasons for the schoolroom procedure. In other words, the child must be conscious that the lesson holds something that he needs in his daily life. The teacher must study her subject-

matter carefully to see what possibilities it holds in the way of motives or problems for the child.

The selection of this motive should not be left to chance but should be carefully thought out. It should be near enough to his natural interests and activities to seem worth while. A real problem exists only when there is an actual desire to find the answer.

The teacher must be careful not to set up problems which are too remote, as the child lives primarily in the present. School festivals, entertainments, general assemblies, excursions, industrial activities, play, games, and school parties for parents are excellent as a source of motive.

Class Procedure. The next part of the lesson plan deals with the class procedure. This is perhaps the most vital part of the plan, since in this the teacher must devise how she will handle the subject-matter in order to awaken the child's interest, to arouse in him a desire to accomplish the task in hand, and to accomplish her motive.

In planning for the class procedure she should consider the kind of response she is likely to receive and how to provide another question if the response is not as comprehensive as it should be. She should also consider how this response is to be handled in order that the child shall develop the proper initiative and acquire proper habits of organizing ideas and of judging values.

An important factor in the class procedure is the question. Its purpose is to test knowledge and to stimulate thought. It should be clear, definite, concise, interesting, and adapted to the age of the child. As a general thing it should not be a direct question which can be answered by yes or no, neither should it be one which

is declarative in form nor one which suggests the answer, as "Yesterday was a rainy day, was it not?"

The thought-provoking question is one which stimulates thought; for example, "What would be a good title for this story?" This type of question should predominate in every lesson. It is doubtful if a lesson which involves questioning should ever be given without containing thought questions.

In asking a question the teacher should direct it toward the entire class rather than toward one child, in order to keep all mentally alert. She should avoid repeating either question or answer.

The Steps in a Lesson Plan. The Herbartian steps for the class procedure are preparation, presentation, comparison, generalization or summary, and application. It is doubtful if all these steps enter into any one lesson, unless it be the inductive-deductive lesson. In the other types, the steps of (1) preparation, (2) presentation, (3) generalization or summary, and (4) application are the ones generally used.

1. Preparation. The procedure should start off with a question or statement that will immediately attract the interest of the child to the problem in hand. The poor results attained in many lessons may be traced to the failure of the teacher to recognize the point of contact between the child and the lesson. The child must recognize from the first, that the lesson is one in which he has a part, one which appeals to him as worth while. Considerable time and energy will be saved if the first words of the teacher attract his attention.

When new material is to be presented, the first step is the recall of any former experiences of the child which are pertinent to his understanding of the new one. If

he has not had this necessary experience, it must be supplied.

2. Presentation. This step of preparation is followed by the presentation of the main points of the new subject-matter through questions, conversation, or illustrative material arranged in psychological order.

3. Summary. Another important factor in the class procedure is the provision for a summary of the important facts or points covered in the lesson. If this is not done the lesson will often prove a failure, because of the child's inability to organize the points covered. The summary can often be made in answer to a skillful question by the teacher; thus, "What have we learned about letter writing today?"

4. Application. Wherever knowledge has been acquired or a habit has been established, it should be followed by the application of this skill to daily life. If a number fact has been learned it should be used immediately in the child's daily life. If this step of application cannot be provided for in a natural way, it would be well for the teacher to scrutinize closely her choice of subject-matter to discover if it be well selected.

Assignment. Very often in the class procedure a question will arise which should be utilized as a problem for the assignment of the next lesson. These should be carefully noted and made use of. If the new problem does not arise out of the class discussion, the teacher should help the child to discover one in the new lesson.

Illustrative Material. The plan should provide for any illustrative materials that will aid in making the lesson clearer and more vital to the child. The teacher will find the use of such material one of the most effective devices that she can utilize. If cards or charts are

used, these should be listed, together with any books of reference, with explicit page numbers. All material should be systematically arranged and placed in readiness before the recitation.

If the teacher has more than one grade and does not have the time for a detailed plan in each subject, she will find that considerable time may be saved by taking a subject and planning the lessons in this for several days at one time. Then as she gains in experience, she will find that all that is necessary is a skeleton plan showing the motives, the outline of the subject-matter, and a few of the pivotal questions.

Following will be found a general outline showing the form of the lesson plan:

- I. *Topic*: What the lesson is about.
- II. *The Teacher's Motive*: The definite things which the teacher expects to accomplish in the lesson.
- III. *The Outline*: A systematic arrangement of the points to be covered in the lesson.
- IV. *The Child's Motive*: The definite thing which the child expects to accomplish in the lesson.
- V. *The Class Procedure*: The preparation of the mind of the pupil for the lesson, the presentation of the subject-matter, the summary of the points made, and the application.

A suggested arrangement for the class procedure is as follows:

SUBJECT-MATTER	PROCEDURE
1	1
The experience of the child relevant to the new subject-matter.	Preparation: The recall of the experiences of the child which will serve as a basis for the new lesson. This may be done through questions or conversation.

The teacher should avoid side issues by holding him to the points which are a necessary foundation for the new knowledge.

Through this step his interest in the new work should be aroused, and from it should develop his problem or motive.

2

New subject-matter in outline to correspond to the divisions of the procedure.

References given in detail as to the book and the page.

All illustrative material listed.

3

The definite statement of the desired summary.

4

Activities from daily life, either school or home.

2

Presentation: Manner of presenting the new material designated, the questions to be asked, the devices to be used. Suggestions for the use of motor responses most pertinent to the subject-matter.

3

Summary: The method used in summing up and organizing the points developed.

4

Application: The new knowledge gained is used immediately in some form of school work or suggestions are made for its application in home life.

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STRAYER, A Brief Course in the Teaching Process

EARHART, Types in Teaching

McMURRY, Elementary School Standards

McMURRY, Method of Recitation

CHAPTER IV

READING

AIMS

In this utilitarian age the first question that arises in the discussion of a subject pertains to its use or value. In the following reasons should be found a partial answer to the question of the value of reading.

1. We read to gain information to direct us in our daily life; for instance, the weather forecast, the schedule of the trains, the prices of grain, or of market produce.
2. Through reading we broaden our lives immeasurably by learning of the experiences of others. Ordinary intelligence demands a knowledge of current events.
3. As human nature has not changed since the beginning of authentic history, the reading of history aids us in judging intelligently the events of the present and also in foreseeing what is likely to occur in the future.
4. We read for pleasure, for culture, and for spiritual help. It is in the truest sense that this reading directs our life, interprets our experiences, and determines our ideals.

It would seem that reading is one of the most important subjects the child will have in the first three years of his school life. The art of reading once mastered, all literature, all history, and all other knowledge found in books, are within his grasp and he passes at once from the dependent to the independent stage. Hence, it is of

essential importance that the primary teacher be skilled in methods that will enable the child to learn to read with the least expenditure of time and energy.

SUBJECT-MATTER

The evolution in the subject-matter of primary reading is a very interesting study, though only a very brief account of it can be given. The early readers were distinctly A B C books, containing letters, syllables, and certain extracts of a religious nature. The present-day movement started with the Reformation. In this period, the books were distinctly religious in character, consisting of the Lord's Prayer, the Commandments, and other scriptural selections. This religious element held sway until the eighteenth century, though other material was beginning to creep in. It then gave way to material about things to eat, moral tales, and the like. As time went on there were many changes until the present-day type of classical literature has become the standard.

Under the old regime the teacher's only problem was that of teaching the child how to read. But for many years there has been a growing realization that teaching "how to read" is only a part of the teacher's problem. The more indispensable problem is that of training him in "what to read."

Much of the crime and immorality of the present is due to the trashy reading material which too often forms a large part of the library of the younger generation. For the sake of giving the child right ideals, the teacher must place before him the best in literature—that which will supply not only standards in language but ideals in character. His experiences should be reinforced by the teachings of others—the lessons which have been treas-

ured in books, and these lessons should begin in childhood.

It is a serious mistake to postpone the reading of good literature until the child has mastered word-form and the other technique of reading. In the newer methods, the teacher tells the child stories and teaches him rhymes and poems from the best literature and then uses these as the subject-matter for the early reading lessons. Thus, from the very first the subject-matter has literary value.

These early lessons are followed by the reading of books which contain interesting Mother Goose rhymes, fairy stories, myths, fables, legends, poems, and lessons of information. The selections should be simple, easily reproduced, and readily dramatized. Through the use of this class of literature the child gains many lessons in right conduct and becomes accustomed to good, refined English.

There is such a wealth of material offered for primary reading that the teacher will find it a difficult task to select the best. Any material selected should possess the following qualities: (a) it should have literary merit; (b) it should be of a character to appeal to the child; (c) it should be simple in thought and form; and (d) it should contain familiar words.

Any text from the following list will meet these requirements:

SMITH, Easy Road to Reading—Lyons and Carnahan, Chicago.

FREE AND TREADWELL, Reading—Literature Readers—Row, Peterson, and Co., Chicago.

WITHERS, BROWN, AND TATE, the Child's World—B. F. Johnson Publishing Co., Richmond

GORDON, The Gordon Readers—New Series—D. C. Heath & Co., New York

ELSON, Elson Primary School Readers—Scott, Foresman & Co., Chicago.

COE AND CHRISTIE, Story Hour Readers—American Book Co., New York

METHOD

Many methods of teaching reading have been exploited. One of the first used is that known as the "alphabet method." In this method the child first learned the letters of the alphabet, then these were joined into syllables, then these syllables into words. He was then ready to read sentences. This method has not been used by trained teachers since 1870, as it was found to be very slow and uninteresting. Then inasmuch as the name of the letter is no index to its sound, the child gained very slowly the power of making out new words for himself. It was really only as he unconsciously learned to connect the sound of the letter with its name that he could make out a word by spelling it. M-a-n does not sound like the word *man* if only the letters are named. It is only through practice that a child unconsciously connects the sounds of the letters with the letter names.

The first effort at relieving the drudgery of the alphabet method by phonics was made by Ickelsamer in 1534. In the "phonic method" the child was taught the sounds of the letters, followed by the use of this knowledge in making out new words. After acquiring a number of words he was ready to begin the reading process. This method, also, was found to be slow, uninteresting, and mechanical, though it did give the child the power to make out many unknown words for himself.

Another method which found great favor was the "word method." The child was first taught isolated words and then these words were joined into sentences. This was more rapid, more interesting, and less mechanical than the phonic or the alphabet method. However, it bordered closely upon the mechanical and was purely a memory process, making the child dependent upon outside aid when he came into contact with a new word.

The method known as the "sentence method" was a contribution by Oliver. By this method the child was taught to read by whole sentences. This was more rapid and much more interesting, but it was a cumbersome method and, as in the word method, it did not give the child the power to make out new words for himself.

From these early methods has evolved what is known as the "combination method." This is a combination of the best features of the phonic, word, and sentence methods. The methods known as the story, the rhyme, and the conversation methods are specialized developments of the combination method.

Story Method. According to the psychology of reading, the story which has been told to the child is a natural point of departure in teaching him to read. The desire for the story seems to be especially strong when he enters school, and it should prove a strong motive for his learning to read. Not only does the story awaken his interest in learning to read, but it also provides him with subject-matter of a nature that grips his attention and develops his power for connected thinking.

The story should be carefully selected as to context and should abound in repetition. After it has been told until the child is perfectly familiar with its thought and wording, it is made the basis of a reading lesson, questions

being asked to bring out the different thoughts. After the reading, he is guided in finding certain words in the story, those words being selected which are found in the vocabulary of his early reading book.

Rhyme Method. The nursery rhymes that have stood the test of time furnish delightful reading matter for the little child. He has a rhythmic sense that is unmistakable and the poem or rhyme selection should have the rhythmic element. It should also have the element of mystery to stir his imagination. The nursery and the nonsense rhymes fulfill both these conditions, since the rhythm of the jingle is irresistible, and its mingling of sense and nonsense arouses the imagination, while its fascination appeals even to the slowest and dullest pupil.

The rhyme should be carefully selected as to context and should contain three or more of the words from the vocabulary of the child's early book. After he has thoroughly memorized this rhyme, it is made the basis of a reading lesson. After it is read, the words of the rhyme belonging to the vocabulary of the book are selected by the child and learned through drill.

In discussing the use of the rhyme in teaching new words, Dr. McMurry¹ says, "In this way they were learning to recognize form by the aid of the context, which is the least mechanical, and the most independent approach to new words—either form or meaning—that there is. This plan, together with the fact that the children were already sharing with the teacher the responsibility of deciding the correctness of answers, gave promise of rapid development of self-reliance in the class." This is also true in the use of the story and the conversation methods.

¹Elementary School Standards.

Conversation Method. In the conversation method the teacher enters into conversation with the child about his play, home-experiences, or any other of his activities, and after an oral discussion of this topic she suggests the writing of the story on the board. It is then made the basis of a reading lesson. As in other methods, he is guided in selecting certain words which belong to the vocabulary of his first book.

Incidental Reading. If reading is to develop as a natural and a necessary process, every opportunity must be utilized for emphasizing it in connection with other schoolroom activities. For instance, the teacher says, "I want every one to rise," writing the word *rise* as she pronounces it. The next time she says, "I want every one to ——," and instead of pronouncing *rise*, she writes it on the board.

Recognition of the names of each child may be taught in this way as, "I want John to erase the board." As the word John is pronounced it is written on the board. The next time she says, "I want —— to erase the board," writing the name *John* instead of pronouncing it.

In language the names of poems and stories, and characters in the dramatization may be developed incidentally. Nature study, music, number work, and games should also furnish abundant opportunity for incidental reading.

Silent Reading. Silent reading is the gathering of thought from the printed page. This is a very important part of primary reading, as reading should always be a process of thought-getting. The child should be taught from the first day of his school life that every sentence is the embodiment of a thought—a thought that is highly important and interesting from his standpoint.

There is an erroneous idea that all reading in the

schoolroom should be oral. When we stop to consider, we find that practically all the reading done in real life is silent reading. Even in school life we find that the proportion of silent reading done is much greater than that of oral reading.

Rate in Silent Reading. Extensive experiments have been conducted to prove the relative value of the rate with which thought is gathered from the printed page. These experiments have developed the fact that the rapid reader is a more intelligent reader than the slow reader, that his impressions are more intensive and more vivid, and that he retains the thought longer. In addition to these important advantages the rapid reader saves considerable time and energy in reading an equal amount of subject-matter. The conclusion is that the teacher should strive from the beginning to train the child to become a rapid reader, first, through the instantaneous recognition of words and groups of words, and then through practice in the rapid reading of sentences and paragraphs.

Oral Reading. Good oral reading is the effective voicing of a thought as it is gathered from the printed page. This will involve the immediate recognition of words, the correct interpretation of the author's thought, a clear enunciation, correct articulation, correct position, and a desire to please the audience. The child must have much training in thought-getting before he is able to read in a pleasing way. Actual oral reading does not begin for several weeks after he has entered school, as he is not capable of gathering thought from the printed page until he has gained some facility in the recognition of words.

Expression. One of the bugbears to the teacher of oral reading is expression. In the older methods, one

way of training for expression was to have the child count a certain number of times for each punctuation mark; for example, for a comma he paused long enough to count one, for a semicolon two, for a colon three, and for a period four. He was also told to let his voice rise or fall for certain marks. Another method was that of imitation of the teacher's reading or that of some one in the class. It will be readily recognized that these methods are purely mechanical.

Oral expression is based entirely on the reader's interpretation of the thought. Silent reading always precedes oral reading, since thought-getting is a prerequisite to thought-giving. Much of the burden of training the child to read with natural expression would be removed if the teacher would realize that good oral reading depends upon the grasping of the thought. The teacher's problem is to lead the child to this proper interpretation of the thought. This may be done through the use of stories, pictures, hand work, dramatization, and questions.

1. **Pictures.** The teacher should find the child's instinctive love for the picture a great help in teaching reading. The picture found in connection with the reading lesson is of great importance, inasmuch as it usually tells the gist of the story. It attracts his attention and arouses his interest. It is not a waste of time to study it carefully, if the child's attention is directed by well selected questions and suggestions, thus enabling him not merely to see the separate objects in the picture but to grasp its story.

This thoughtful study of the picture should be beneficial from the standpoint of arousing interest in the reading lesson, as well as from that of aiding in oral expression. If the child reads a part of the story in the

picture, he will be eager to read the remainder from the printed page.

The grasping of the thought and the good oral expression of this thought depend upon the mental picture back of the oral utterance. If the visual picture is wisely used, it helps the child to form this necessary mental picture. The reading of the lesson will verify and add to, or modify the picture story. In order to do this, it will be necessary to make constant reference to it both during and after the reading of the lesson.

2. Handwork. Free - hand illustrations of the printed story by means of pencil, chalk, or crayon pictures, free-hand paper cutting, and clay modeling will prove helpful in developing the mental pictures.

3. Dramatization. To dramatize or to act out a story is a natural instinct of the child. This instinct is a good foundation on which to build in training him to read with natural expression, inasmuch as dramatic action is a great source of delight during the primary period. This dramatization, or playing the story prepares him to read with appreciation and expression, since it makes the situation real to him. He sees the characters act, he hears them talk, in fact, he lives the story. The thoughtful teacher will use dramatization as much as possible in her reading work, dramatizing all stories and rhymes which contain the dramatic element.

There are two forms of dramatization used in the schoolroom. One form may be termed free or natural dramatization, in which the child acts out the story in a free manner without any reference to the descriptive parts of the story or to the actual wording; the other form is similar to the dialogue in which the parts are assigned and each character reads his part from the

book, some other member of the class reading the descriptive part. It is well to plan to have as many children take part as possible, changing the characters frequently.

Supplementary Reading. Fluency in reading comes only through well directed practice. The teacher should supplement the reading of the required book by extra or supplementary reading. The specific purposes of this supplementary work are to increase the child's skill in grasping the thought of the printed page, to insure greater fluency in the oral expression of the thought, and to insure greater proficiency in the recognition and pronunciation of words and phrases.

In selecting the material for supplementary reading the teachers should select something worth while—something having literary merit, but at the same time, of interest to the child. It should be easy reading, full of dramatic action, and the English should be unquestioned. Much of the material for supplementary work may be obtained from children's magazines, school journals, well-selected readers, and through conversation with the child on some interesting topic.

Punctuation and Capitals. The use of the period and the interrogation mark at the end of the sentence, the use of the capital in the first word of the sentence, and in the names of people may be taught incidentally in connection with reading during the first year. When the teacher has occasion to write a sentence on the board she remarks, "I am beginning this sentence with a capital letter for that is the way we begin a sentence." This may be varied by asking, "With what kind of letter should I begin this sentence?" or "Why do I begin this sentence with a capital letter?" As she finishes writing the sen-

tence she says, "I will place a period here to show that this is all of the sentence," or "I will place a question mark here to show that this is a question." The use of the capital for the names of people should be taught in this same incidental way.

In the second grade she should teach the use of the quotation marks by leading the child to discover their use as they appear in the reading lessons. The use of the comma after words of address may be taught in the same way. When the child is reading a poem he should be led to discover that each line begins with a capital.

In the third grade the incidental work of the first and second grades should be reviewed, and the rule that the names of the week begin with capitals, but that the names of the seasons do not, should be added.

Script and Print. There is a difference of opinion as to the time for teaching script and print to a beginning class. Some would teach print only; some script only; while others would teach the script and print together. If it were practicable, it would seem best to teach only print at first, as all the reading matter with which the child comes in contact is printed. Then, in the early lessons, one of the aims is to make him familiar with the words found in the vocabulary of his first book. It would seem better to teach these words in the form in which they occur in the book. In the absence of the proper equipment for printing, a compromise may be made by using the script on the board and having the printed perception cards for the drill work.

Alphabet. Through the work in phonics and penmanship the child gradually learns to recognize the letters of the alphabet in irregular order. This is all that is necessary for present needs. He does not have a prac-

tical need for a knowledge of the alphabet in regular order until he begins to use the dictionary, the telephone directory, the city directory, the index of a book, or a card catalogue. These needs are not likely to arise before the third school year; hence, so far as utility is concerned, this would be the proper time for teaching the alphabet in its regular order. As a concession to public opinion, many primary teachers find it advisable to teach the alphabet in regular order by the close of the first year.

Standard in Reading. A standard by which to measure progress is very helpful in any work. The standard in primary reading is fluency in the gathering of the thought of the printed page and fluency in the oral expression of this thought. If the subject-matter is well selected as to thought and word content, this is not too high a standard for the average primary class.

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CHAPTER V

PRE-PRIMER WORK

(READING—CONTINUED)

AIM

Opinion varies as to the proper time for placing the book in the hands of the child. In some methods of reading, he has the book from the first day, in others, not for some weeks. This latter procedure is based on the theory that he has not learned to recognize words, and so has little use for a book.

The ability to recognize words is an essential element in independent reading, and until the child becomes familiar with a few words he cannot read independently. Many teachers have found that it is better to have these early reading lessons from the blackboard or from the home-made chart. By using the board or chart she is better able to hold the interest of the class and to concentrate the attention on the desired points. If the child has a book at first, he is likely to lose interest in it long before he can read, and it often results in the formation of incorrect habits in reading.

SUBJECT-MATTER

However, the teacher does not delay the reading process until the child has learned a vocabulary sufficient for independent reading, but the first few weeks of the

beginning year are spent in preparing him for the work with the book. The vocabulary of the first fifteen or twenty pages of the first book to be read is taught through the use of stories, rhymes, poems, games, and conversations.

The story, rhyme, or poem selected should contain three or more of the words found in this vocabulary. The words need not be taught in the order found in the book, but may be grouped to fit the material selected.

The following rhymes, and list of stories are interesting and eminently suitable for these early lessons.

Rhymes

“Jack be nimble,
Jack be quick,
Jack jumped over the candle stick.”

“Little Boy Blue, come blow your horn,
The sheep are in the meadow,
The cows are in the corn.
Where is the little boy
Who looks after the sheep?
He is under the haystack fast asleep.”

“Little Miss Muffet sat on a tuffet,
Eating her curds and whey.
There came a big spider,
And sat down beside her,
And frightened Miss Muffet away.”

“Little Bo-Peep has lost her sheep,
And can’t tell where to find them.
Leave them alone and they’ll come home,
Wagging their tails behind them.”

"There was an old woman who lived in a shoe.
She had so many children, she didn't know what to do.
She gave them some broth without any bread,
And whipped them all soundly and sent them to bed."

Stories

The Little Red Hen and the Grain of Wheat
The Little Red Hen and the Fox
The Three Bears
The Three Pigs
The Stories from the Story Hour Primer
The Stories from the Free and Treadwell Primer
The Stories from the Easy Road to Reading Primer

METHOD

This material is first developed orally and then used as a reading lesson. As a rule the teacher will find it a good plan to correlate these early lessons with the language work. All the oral work in connection with the story, rhyme, or poem may be carried forward in the language period. This oral work should precede the oral reading by two or more days. The child should be perfectly familiar with the part of the story or the poem to be read before he is allowed to read it.

Illustrative Lessons

First Grade

- I. *Subject:* Language. (Preparatory to the reading of the rhyme.)
- II. *Topic:* Mother Goose rhyme, "Little Miss Muffet."
- III. *Teacher's Motive:* (1) To help the child to en-

joy the rhyme. (2) To help him to memorize the rhyme as a basis for a later reading lesson.

IV. *Child's Motive*: (1) To decide if he would have acted as Little Miss Muffet did. (2) To picture mentally the scene of the rhyme. (3) To dramatize the rhyme.

V. *Subject-matter and Procedure*:

SUBJECT-MATTER	PROCEDURE
1 Experiences with spiders.	1 Preparation: "Are you afraid of spiders? If a spider should come up and stop beside you, would you be frightened? What does frightened mean?"
2 Little Miss Muffet sat on a tuffet, Eating her curds and whey. There came a big spider And sat down beside her, And frightened Miss Muffet away.	2 Presentation: "Listen to what the little girl did in this rhyme and decide if you would have acted as she did." The teacher repeats the rhyme. "What did Little Miss Muffet do? Would you have done as she did? "Shut your eyes while I repeat it again and see if you can imagine that you see Little Miss Muffet and the spider." The teacher repeats the rhyme. "Did you see Little Miss Muffet? What did she look like? Who saw the spider? Where was Little Miss Muffet sitting? What is a tuffet? What was she eating? What are curds and whey? "Shut your eyes while I repeat it again and see if you can imagine you see her sitting on a tuffet, eating her curds and whey." She repeats the first three lines. "Did you

see her? Let me see if one of you can tell us where Little Miss Muffet was and what she was doing, using the words of the rhyme." She calls on several different children to repeat these three lines.

"Let me see if I can make you imagine you see the big spider that sat down beside her." The teacher repeats the last three lines. "Did you see the big spider? What did it do? Then what did Miss Muffet do? Who can tell us about the spider, using the exact words of the rhyme?" The teacher has several different children to repeat the last three lines of the rhyme.

3

The reproduction of the entire rhyme.

3

Summary: "Would you like to dramatize or act this rhyme? What characters shall we need? How can we remember which is Little Miss Muffet? Suppose we let her hold this card which has her name on it. Here is the spider's name for him to hold. What else do we need? What shall we use for a tuffet? What shall we use for the bowl of curds and whey? Let us repeat the rhyme in concert while Little Miss Muffet and the spider act their parts." The rhyme may be dramatized several times, changing characters each time.

4

The reproduction of the rhyme for the mother.

4

Application: "Repeat this rhyme for your mother."

First Grade

I. *Subject*: Reading.

II. *Topic*: "Little Miss Muffet."

III. *Teacher's Motive*: (1) To lead the child to realize that to read means acquiring stories, poems, and rhymes. (2) To have him read from the blackboard or the chart, the Mother Goose rhyme, "Little Miss Muffet." (3) To have him learn to recognize at sight, the words *sat, on, he, and came*. (These words are taken from the vocabulary of the first 15 pages of the primer.)

IV. *Child's Motive*: (1) To read the rhyme as the teacher did. (2) To find certain words in the rhyme.

V. *Class Mechanics*: (1) The rhyme should be written on the board or printed on a chart, with a decided space between each word. In the beginning the child does not have the ability to differentiate the single word from the group, and for this reason each word should stand out vividly. (2) The child should not be permitted to point at the separate words in reading, as this will result in the words, rather than the phrase and sentence, being the unit of thought. This rule does not apply when the search for words begins, as the purpose of this is not reading but to find the words—this second reading being merely a means to the end.

VI. *Subject-matter and Procedure*:

SUBJECT-MATTER

1

The recall of the home experiences with the rhyme.

PROCEDURE

1

Preparation: "How many of you repeated the rhyme for your mother? Where do you suppose I found this rhyme? How did I know what it was about? Would you like to read it as I did?"

2

Little Miss Muffet sat on
a tuffet,
Eating her curds and
whey.

There came a big spider
And sat down beside her,
And frightened Miss
Muffet away.

sat
on
he
came

2

Presentation: "Here it is on the board (or chart). Who will read it for me?" The teacher has it read by individual children. She indicates each part as it is read by placing a pointer under the entire length of the line. Then the rhyme may be read in two sections by having one child read the section that tells what Little Miss Muffet was doing, and another read the section about the spider.

"Who will read the part that tells where Little Miss Muffet sat? Who will read the part that tells what she was doing? Who will read the part that tells what the spider did? Then read the part that tells about Miss Muffet's being frightened. Show me the part that tells where Little Miss Muffet sat. Read it for me. I wonder who can find where it says *Little Miss Muffet sat on a tuffet?* Make a mark around it.

"I wonder if you could find where it says *sat?*" The child is trained to read until he comes to the word *sat*. He then makes a mark around it. The teacher should have perception cards with the printed form of the word on one side and the written form on the other. These cards are placed with printed side exposed, where they can be seen by the entire class. "I wonder if you see a card that has *sat* on it?" When the card is selected the choice should not be

criticized, but the written side of the card should be placed directly under *sat* in the rhyme, and the child should be allowed to decide whether or not it is right. "Who can find where it says *on* in the rhyme. This same plan should be continued until each clause or line is pointed out and all the words are found. The lesson should be closed with a drill lesson on these words. An illustrative drill lesson will be found in Chapter VI, pages 75 to 76.

First Grade

I. *Subject: Language.* (Preparatory to the reading.)
II. *Topic: Story, "The Little Red Hen and the Grain of Wheat."*

III. *Teacher's Motive:* (1) To develop a love for good literature. (2) To make the child familiar with the story so that he will be able to read it. (3) To teach him organization of thought by having the story told by thought groups. (4) To prepare him for realistic reading through dramatization.

IV. *Child's Motive.* (1) To discover the result of laziness. (2) To learn the story so he may tell it to others. (3) To tell the story in such a way that his teacher and classmates will enjoy it. (4) To act the story as he thinks it should be acted.

V. *Subject-matter and Procedure:*

Story, "The Little Red Hen."

"Once upon a time a little red hen found a grain of wheat. 'Who will plant this wheat?' said she. 'I will not,' said the Rat. 'I will not,' said the Cat. 'I will not,' said the Pig. 'I will, then,' said the Little Red Hen. So she planted the wheat.

"When the wheat was ready to cut, the Little Red Hen said, 'Who will cut this wheat?' 'I will not,' said the Rat. 'I will not,' said the Cat. 'I will not,' said the Pig. 'I will, then,' said the Little Red Hen. So she cut the wheat.

"Then she said, 'Who will take this wheat to the mill?' 'I will not,' said the Rat. 'I will not,' said the Cat. 'I will not,' said the Pig. 'I will, then,' said the Little Red Hen. So she took it to the mill and had it made into flour.

"Then she said, 'Who will make this flour into bread?' 'I will not,' said the Rat. 'I will not,' said the Cat. 'I will not,' said the Pig. 'I will, then,' said the Little Red Hen. And so she made the flour into bread.

"Then she said, 'Who will eat this bread?' 'I will,' said the Rat. 'I will,' said the Cat. 'I will,' said the Pig. 'No, you will not,' said the Little Red Hen, 'I shall eat it myself,' and she did."

SUBJECT-MATTER**PROCEDURE****First Day****1**

The recall of experiences connected with work.

2

The Little Red Hen and the Grain of Wheat.

1

Preparation: "Do you like to work? Who does the work in your home? Could you get along if no one worked? Why not? What can boys and girls do to help? Let us see what happened to the folks in this story who would not work."

2

Presentation: The teacher tells the story. "What happened to them? Was that fair?"

Second Day**1****1****The recall of the story.**

Preparation: "What happened in the story of the Little Red Hen? Name some of the things that were in the story. Do you enjoy hearing me tell it? Would you like to be able to tell it to some one? What must you know before you can tell it?"

2**2****The Little Red Hen
and the Grain of Wheat.**

Presentation: "Listen carefully while I tell it again, and then see if you do not know it well enough to tell it to some one who has never heard it." The teacher tells the story.

Third Day**1****1****The recall of experiences relating to the reproduction of the story.**

Preparation: "Did you tell the story to any one? Did he seem to enjoy it?"

2**2****The first thought group
in the story.**

Presentation: "Now I want to hear you tell it. See if you can make us enjoy it. Who will come and tell the section about how the wheat was found and what was done with it?" The teacher has a child come and tell this part. By calling on a different child for the different sections of the story a larger number may get the development which comes through the reproduction of stories.

The second thought group.	"Who will come and tell the section about cutting the wheat?
The third thought group.	"Who will come and tell the section about taking the wheat to the mill?
The fourth thought group.	"Who wants to tell the section about making the bread?
The fifth thought group.	"Who will tell the section about eating the bread?"

Fourth Day

The story is retold as on the third day.

Fifth Day

"How would you like to dramatize the story of the Little Red Hen? What characters do we need?" The teacher has perception cards with the names of the characters printed or written on them. "Mary may be the Little Red Hen." She is given the card which has *Little Red Hen* printed on it. "Joe may be the cat, Frank the pig, and Helen the rat." The teacher gives the cards with the respective names to each child. "You may each pretend that you are the character you represent and act just as you think that character would act." The teacher tells the connecting links in the story, and the children dramatize it. If they are very much interested, the story may be dramatized a number of times. The characters should be changed each time.

First Grade

I. *Subject:* Reading. Story Method.

II. *Topic:* A section of the story of the "Little Red Hen and the Grain of Wheat."

III. *Teacher's Motive:* (1) To lead the child to realize that reading means the acquiring of stories, poems, and rhymes. (2) To have him read from the blackboard or chart the story of "The Little Red Hen and the Grain of Wheat." (3) To have him learn to recognize at sight the words: *I, will, not, said.* (These are words found in the vocabulary of the first 15 pages of the primer.)

IV. *Child's Motive:* (1) To learn to read stories. (2) To read a section of the story of "The Little Red Hen and the Grain of Wheat." (3) To find certain words in the story.

V. *Subject-matter and Procedure:*

SUBJECT-MATTER

A little red hen found
a grain of wheat.

PROCEDURE

"Do you like the story of the Little Red Hen? Would you like to read stories? Suppose we read a section of this story? I have it here on the board (or chart).

"Who is ready to read the sentence that tells what the Little Red Hen found?" The teacher has a child read as she places a pointer under the entire length of the sentence. The child should not be allowed to point at the individual words except when he is hunting a certain word in the sentence. Pointing out each word causes word-reading instead of thought-reading.

"Who will plant this wheat?" she said.

"I will not," said the Rat.

"I will not," said the Cat.

"I will not," said the Pig.

"I will, then," said the Little Red Hen. So she planted the wheat.

I
will
not
said

"What did the Little Red Hen say?" A child reads the sentence.

"What did the Rat say?" A child reads the sentence. If he leaves out "said the Rat," the teacher should ask, "Who said that?" and allow him to add "said the Rat."

The teacher continues by asking questions until the entire lesson is read.

If there is time the other sections of the story should be read, or a child may reread the first section of the story. In the reading, the teacher will usually find it necessary to ask a question about each sentence to serve as a guide in reading that special sentence.

After reading the story, certain words are to be taught as sight words. "Read the sentence about finding the wheat. What did the Little Red Hen say? Who can find where it says *will* in this sentence?" The child should be trained to read until he comes to the desired word and then stop. Before asking him to find a certain word, the teacher will usually find it better to call the child's attention to the sentence containing the word, as in the above instance. "Do you see *will* in another sentence?" The word *will* is pointed out in the other sentences. If the story is on the board, the child is allowed to place a mark entirely around the word. This sets the word off from the other words, and makes it easier for him to see

it as a separate unit. "Do you see *will* on a card?"

Each sight word should be on a perception card. If the story is on the blackboard, it will be best to have the word printed on one side and written on the other. The printed side is exposed, but the child is trained to reverse the card for a more accurate comparison with the word in the written story. The printed side is used in all the drill lessons. After a few weeks the teacher will find that the child will not need to have the written word on the card, inasmuch as he can successfully compare the printed word with the written word on the board.

If the child chooses the wrong card, he should not be corrected, but allowed to discover his own mistake by comparing it with the word in the story. If the teacher will follow this rule, she will help him to form the very valuable habit of depending upon himself.

"What did the Rat say? Read the entire sentence. Who can find where it says *I*?" The plan used in developing the word *will* is used in developing *I*, *not*, and *said*. After all the words are developed there should be a drill lesson on these words to help fix them in mind. An illustrative drill lesson will be given in Chapter VI, pages 75 to 76.

First Grade

I. *Subject:* Reading. Conversation Method.

II. *Topic:* The Story of an Excursion.

III. *Teacher's Motive:* (1) To give the child an additional interest in reading by allowing him to compose a story and then read it. (2) To teach him that reading is always thought-getting. (3) To have him learn to recognize at sight, the words: *went, some, and red.*

IV. *Child's Motive:* (1) To develop an oral story of the excursion to tell to his mother. (2) To compose the story so that it may be written on the board. (3) To read the story. (4) To find certain words in the story.

V. *Subject-matter and Procedure:*

SUBJECT-MATTER

1

The recall of experiences connected with the excursion.

PROCEDURE

The teacher and the children have just returned from an excursion to the woods, where they found many beautifully colored autumn leaves.

1

Preparation: "How many enjoyed our excursion? Let us name the different things we found. Which leaves do you like best? Do you like to go on excursions? What will you tell your mother about it? What do you think we should tell her first? Yes, tell her what we did. What shall we tell her next? Yes, she will want to know where we went. What shall we tell her next? Yes, let us tell her what we found. Then what do you think she will want to know? Yes, let us tell her which leaves we liked best and what we did with

them. Then, I wonder if she will not want to know if we like to go on an excursion?

"Who will tell the story of our excursion as you will tell it to mother?"

2

We went on an excursion.

2

Presentation: "Do you not think it would be nice to write our story on the board? What did we tell first? I will begin this sentence with a capital letter, since that is the way we begin sentences, and then I will place a period here to show that I am through." Some similar remark should be made about the beginning and ending of each sentence. In this incidental way, the correct habit of writing a sentence may be established.

"What did we tell next? Don't you think people will want to know where we went? How shall we say this? What did we tell next? Yes, we told what we found. How shall we say this?"

"What did we tell about which kind we liked best? How shall we say this?"

"What next? How shall we tell them about the leaves we brought back with us? Do you not think it will be interesting to tell them about what we did with our leaves? What did we say about liking to go on excursions?"

"Suppose we read our story? What

We went to the woods.
We found some red leaves.

We found some yellow leaves.

We found some green leaves.

We liked the red leaves best.

We brought some red and yellow leaves back with us.

We decorated the room with them.

We like to go on excursions.

did we say we did?" The first sentence should be read by placing the pointer under its entire length. "Where did we go?" A child reads the sentence. "What color of leaves did we find first?" The sentence is read. "What about the yellow leaves?" A child reads the sentence. "What about the green leaves?" The sentence is read. "Which leaves did we like best?" A child reads the sentence. The other sentences are read in a similar way.

went

"What did we do?" The first sentence should be re-read. "Who can point to the word that says *went*?" Do you see it in another sentence? Who can find *went* on the cards?

some

"Where did we go?" The sentence should be re-read. "What about the red leaves?" A child re-reads the sentence. "Find where it says *some*." Each word is developed in a similar way. The lesson should be closed with a drill lesson on the words, *went*, *some*, and *red*. (See Chapter VI, pages 75 to 76.

red

First Grade

- I. *Subject*: Silent Reading Recitation.
- II. *Topic*: Run, Jump.
- III. *Teacher's Motive*: To help the child to understand that reading is thought-getting.
- IV. *Child's Motive*: (1) To guess what the teacher said. (2) To dramatize the sentences on the cards.
- V. *Subject-matter and Procedure*:

SUBJECT-MATTER

1

A guessing game and the recall of experiences which make necessary the reading of written language.

PROCEDURE

1

Preparation: "How many of you are good guessers? I am going to whisper to Mary to do something and when she does it I want to see if you can guess what I said to her." The teacher whispers to Mary to run. "Who can guess what I said to her? Could I tell you to run in any other way than to say it? How do you tell Santa Claus what you want for Christmas?"

2

run

jump

2

Presentation: "I have *run* printed on this card and when I show it to you I want you to run." The word should be printed with proper capital and punctuation mark. Even if a sentence has only one word it should be properly capitalized and punctuated. The teacher shows the card and has a number of the children to run. *Jump* should be developed in the same way. She shows first one card and then the other and has a child to act out each one in turn.

Any word that is unknown to the child must be introduced orally before he can be expected to recognize it. The following sentences are offered as suggestions of sentences which may be used in silent reading. Run. Jump. Come to me. Jump to me. Run to a boy. Run to the table. Run to the door. Jump to me. Jump to

a boy. Jump to a table. Jump to the door. Sing. Hop. Dance. Skip. Fly.

The child should not be confused by giving new sentences **too often**. The aim is not that of teaching new words but that of getting the thought of the sentence. By using little games and devices, several days may be spent on the same sentence.

When the child takes up the book, the silent reading should be used whenever an opportunity offers. If the sentence is imperative, he may read it silently then act it out; if it is an interrogative sentence he may read it silently, then answer the question; if the sentence can be illustrated he may read it silently and then illustrate it by drawing, or paper cutting.

For the early lessons in Phonics, the student is referred to Chapter VII, pages 88 to 94.

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CHAPTER VI

THE DRILL LESSON

(READING—CONTINUED)

AIM

The ideal way for the child to learn to recognize the word and the phonic symbols would be through their use in the subject-matter of the reading lessons. However, this has not been satisfactorily accomplished. Wherever an attempt has been made to leave word mastery to the repetition of the word in the context, the subject-matter has suffered. It is either choppy and pedantic because of the necessity for the frequent repetition of the words, or else the thought-getting process has suffered. This is due to the inability of the child to recognize words automatically. If he is to be left free to give his entire time and attention to the thought, the mastery of words is an essential element in the reading process.

The recognition of the important words of the vocabulary of the lessons that the child reads should be reduced to an automatic basis. It is the function of the drill lesson to accomplish this. The teacher's mistake is not that she does such work too well, but that she makes it the final end of the reading lesson. She leads the child to believe that he can read when he is merely able to pronounce words.

METHOD

Constant drill upon word groups, sight words, and phonetic sounds is necessary until the recognition is mechanical, allowing the child to give his entire attention to the thought. These drills should be carried on at a period apart from the regular reading recitation.

THE LESSON PLAN

As previously stated, the essential points in an intelligently conducted drill are (1) a motive, (2) a clear idea of the desired response, (3) attentive repetition, (4) no exceptions in the correct response, (5) reviews, and (6) application.

1. **Motive.** Much of the drill work on words, phrases, and phonetic symbols is wasted time because the child does not see the use or feel the need for the desired habit, consequently he feels little interest in the accomplishment of the results demanded. It has already been shown that a motive or aim will add interest to the learning process and result in a saving of time and energy. The stronger and more interesting this motive, the better the attention will be, and the sooner will the desired results be attained.

If the conditions were ideal the drill work should come when the child realizes that his future progress in reading depends upon the instantaneous recognition of the words. The teacher should lead him to see and feel this need; for instance, after the new words of the next day's reading lesson have been presented by some approved method, the next step is a drill on these words, with the purpose to make their recognition automatic.

The teacher may supply a motive in the following

manner: "Boys and girls, do you know that these words which we have just found in the sentences will be in tomorrow's reading lesson? What should we do if we want to be able to read our lesson without help? Yes, we must be able to recognize them instantly wherever we see them. Let us see, then, how quickly we can learn them." This is the highest type of motive and should be used frequently. It may be supplemented by the desire to play a game which involves the recognition of the words or phonetic symbols.

2. A Clear Idea of the Response. A clear idea of the response to be drilled on is a very essential factor in the drill lesson. In a drill on words and phrases the teacher should see that the child hears the words correctly, can pronounce them correctly, and knows their meaning or use in the sentence. She should also make sure that he visualizes the words correctly. In a drill on phonetic sounds she should make sure that he hears the sound correctly, that he utters it correctly, and that he visualizes the symbol correctly. It is a wise teacher who takes every precaution to avoid error in drill.

3. Attentive Repetition. In order to establish a habit permanently there must be many repetitions of the desired response. This repetition must be with the full attention inasmuch as repetition without direct attention is a great loss of time.

Even when a child has a strong motive with which to start, it is a difficult task to hold his attention while the necessary repetition is going on. Strayer¹ says, "No matter how strong the motive with which we start, any one of us will grow weary when the task imposed requires many repetitions. It is even more difficult for children

¹A Brief Course in the Teaching Process.

to keep their attention fixed for any considerable length of time. We must, therefore, plan carefully to conduct the drill in such a way that the maximum of attention may be secured." The use of little games, devices, and other variations in procedure will assist greatly in securing this attention.

Not only does the game or device hold the attention better but it has the added advantage of making use of the law of association, which is an important element in the formation of a habit.

The drill should be short and snappy if the attention is of a desirable type. When the interest begins to wane the drill should be stopped or the method of procedure changed. It is much more profitable to have two short interesting drills than one of longer duration without the full attention.

a. **Devices.** Cards made of stiff paper or tag-board are indispensable in drill work. Upon these cards the words or sounds should be printed or written in type large enough to be seen readily across the room. These may be either purchased from the company publishing the basal reader or made by the teacher. For this work she would need the Rubber Type Chart Outfit. This may be purchased from A. Flanagan Company, Chicago.

Many devices and games for drill lessons will be found in primary school journals. The following devices are good:

(1) Cards are pinned where they can be easily seen. Two children are given a pointer each. The game is to see which can first touch the word or sound named by the teacher.

(2) The teacher holds the card before the class for

an instant, then removes it and calls on some one to name it.

(3) Three or more children stand in a row, facing the class. A word-card is given to each. When the teacher names a card, the child holding that card turns around.

(4) The teacher exposes a card for an instant, then calls on some one to name the card. If he answers correctly, he is given the card. The game is to see who can get the most cards.

(5) *Postman.* One child is selected for the postman or mail-carrier. The cards represent letters. The postman passes around the class, leaving a letter (card) on certain desks. Each child who receives a letter comes before the class and reads (names) his letter. The postman is changed and the game proceeds as before.

4. **No Exceptions.** The first repetition should be so planned that there will be little opportunity for error. The habit of guessing in a drill should never be permitted, since every error makes the work of fixing the correct habit more difficult. The child should be trained to recognize when he does not know a word or symbol.

5. **Reviews.** If the recognition of the words, phrases, or phonic sounds is to become a permanent habit, it is necessary to continue this repetition from time to time until the recognition becomes automatic. The time should vary with the relative difficulty and importance of the different words and sounds. If the teacher has the purpose of the drill in mind she should readily recognize when it has been accomplished.

6. **Application.** If the motive established in the drill lesson is to be a vital one, the lesson or series of lessons should end in the step of application. If the

motive is to enable him to read the new lesson, he should study the lesson. If the motive is to play a game, the lesson should end by the playing of the game.

ILLUSTRATIVE LESSON

First Grade

I. *Topic:* went, found, some. These words have been developed by the conversation method, Chapter V, pages 65 to 67, and the children are ready for a drill lesson.

II. *Teacher's Motive:* (1) To teach the child to recognize the words instantly, as a preparation for the book or for a new lesson in the book.

III. *Child's Motive:* (1) To learn the words so that he may study his lesson or read his book. (2) To play the game.

IV. *Subject-matter and Procedure:*

SUBJECT-MATTER	PROCEDURE
went	"Boys and girls, do you know that these words are in your new lesson? Don't you think it will be a good plan to learn them so that you may study your lesson without help?" If the children have not taken up the book the teacher may proceed as follows: "Boys and girls, do you know that these words are in the book we are going to read? And do you not want to be able to read your book? Then let us see how quickly we can learn them." The teacher has a minute or two of concert drill. "I want two children to come and see which can first touch the word I
found	
some	

name. The one that wins may give the pointer to some one else." Each of these two children takes a pointer and the teacher calls the words thus: "went, found, went, some, found, went, some, found." The game is continued until these two seem to know the words. Then the children are changed and the game proceeds as before.

The drill lessons on phonics will be given in Chapter VII, pages 88 to 94.

REFERENCES

STRAYER, A Brief Course in the Teaching Process
EARHART, Types of Teaching
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CHAPTER VII

PHONICS

(READING—CONTINUED)

AIM

The final efficiency of any method of teaching reading is considerably decreased if it does not develop the power for independent reading.

Since a great many of the words of the English language are phonetic in their form, a knowledge of their elementary sounds should enable the child to pass to the independent stage in the reading process. In other words, a knowledge of these sounds should help him to recognize words new to his eye but already in his spoken vocabulary. This process is usually designated as phonics.

The subject of phonics as a part of the process of teaching a child to read, may be defined as the teaching of the sounds of letters and groups of letters and the training of the child to use this knowledge in making out for himself the unknown phonetic words of his reading lessons.

The aim of the phonic work is (1) to train the child to hear words correctly; (2) to help him gain control over the organs of speech necessary to clear articulation and correct enunciation; and (3) to help him gain the power of making out new words for himself.

SUBJECT-MATTER

The subject-matter of the phonic lessons should be coördinated with the vocabulary of the child's reading book and should consist of the sounds of the letters and groups of letters which go to make the phonetic words of this vocabulary.

This subject-matter should consist of consonant sounds, diphthongs, and sound families.

If the teacher will examine lists of words she will find that many of them will fall into groups ending in the same combination of letters with the same sound; as may, gay, ray, day, pay. These words are said to belong to a word or sound family. In the above instance the word or sound family would be the ay (ā) family. Following, is a suggestive list of word or sound families: ick, ave, ow (now), an, ad, un, id, ow (snow), ame, at, ack, as, eep, ake, in, all, ope, ore, ich, uck, est, ung, ind, ound, eck, ank, ouse, ied, eat, oom, ole, ong, ide, owl, ace, ost, een, ain, ook, art, eg, orn, ime, ie, ind, ish, ane, air, ear, idge, ue, ight, oat, ood, oss, ar, ath, irst, ush, isk, oy, ool, unk.

As the aim of the phonetic work is to train the child to independence in recognizing unknown words that are meeting his eye daily, those sounds should be selected that will give him the knowledge which is of immediate use.

Course of Study

If the teacher will carefully study the following directions she should find it possible to make her own outline for the teaching of phonics in connection with any book.

1. For the first few weeks, the teacher should train

the child to hear the sound in words. This should be followed by a training in uttering words phonetically. This is *entirely oral* and should be kept up until he can tell instantly what a word is when it is uttered phonetically, and until he exhibits some skill in uttering words phonetically.

2. After the first step has been successfully accomplished, the child is ready for the second stage, which is the association of the sound with its written or printed symbol.

As a preparation for this step the words of the vocabulary of the reading book should be grouped according to the first letter of the sound family, which is usually the first vowel of the word. It will be found much better, especially in the first year's work, to consider words of only one syllable, since words of two or more syllables present difficulties which are beyond the grasp of a beginner in phonics. After grouping the words as suggested above, the next problem is to select the consonants and the sound families that will be most helpful to the child in making out the unknown words of his reading lessons. The teacher should go through each group of words and select those which have two or more words belonging to the same sound-family. Only those words should be considered whose endings are common enough to make it worth while to teach them. For instance, *ay* is a common ending but *ith* is not.

Following will be found an illustration of the above plan for making out a phonetic course of study as applied to the Free and Treadwell Primer, published by Row, Peterson, Chicago.

The word vocabulary in the back of the book was the basis for this course. A column was arranged for each

of the vowels, as a, e, i, o, u, y. The words of the vocabulary were then grouped according to the first vowel of the sound-family. All words of more than one syllable and those whose endings are not common were eliminated. The column under the vowel *a* was as follows: plant, cat, and, make, man, had, made, ran, am, can, came, hang, rat, gnaw, gave, that, grass, thank, pancake, saw, fast, ate, tail, fat, shake, ant. These words were regrouped according to the sound-family. Where the list contained only one word of a family this word was eliminated, since the first word must be taught as a sight word. If the second word was not in the vocabulary the family would not be of immediate help to the child.

After this regrouping, the list was as follows, cat, rat, that, fat, at; man, ran, can, pan; make, cake, shake; gnaw, saw. Consequently, the families which were to be taught under this *a* column were the *at*, *an*, *ake*, and *aw* families.

As previously stated, the first word of the family series should be taught as a sight word, then when the second word appears in the vocabulary, the family should be taught, using the first word as a foundation. For example, the word *cat* is taught as a sight word. The second word, *rat* is on page 36. Then the *at* family should be taught on the day the child needs to know the word *rat*. *Rat* should not be taught as a sight word but the child should be trained to sound it out. Hereafter, the teacher should insist that he sound out any word belonging to the *at* family. In order that he may do this it is necessary for her to look ahead and see that he has been taught the consonant sounds which he will need in sounding out these words. The complete phonetic course

of study is shown in the following list. The italicized words are the foundation words for the families which are to be taught. The family is given in parentheses at the time when it should be taught. The words which are starred are phonetic words which are not taught as sight words but which are sounded out by the child. The number signifies the number of the page in the primer on which the words appear as a new word.

1	5	11	15
the	<i>cut</i>	gingerbread	<i>met</i>
little	then	boy	am
<i>red</i>	and		
<i>hen</i>	<i>she</i>	there	12 16
	did	old	¹ can*
2	6	woman	run
found	thresh	(Teach <i>e</i>	
a —		family	
seed		from she)	21
<i>it</i> —	7	¹ he*	
was	grind	<i>man</i>	<i>fox</i>
<i>wheat</i>			
3	8	13	23
said	<i>make</i>	wanted	(<i>ut</i> family
who	bread	so	from <i>cut</i>)
<i>will</i>		made	¹ but*
plant	9	14	
4	(Teach <i>eat</i>	(Teach <i>an</i>	26
<i>pig</i>	family from	family	¹ an*
<i>not</i>	wheat)	from man)	sixpence
<i>I</i>	¹ eat*	¹ ran*	(<i>et-met</i>)
<i>cat</i>	you	away	¹ get*
dog	shall	from	with

¹Consonant sound must have been previously taught.

27	34	42	52
came	rope	rabbit	seven
to	hang	(y from my)	children
stile	36	¹ by*	(ig-pig)
over	(at family	¹ why*	¹ big*
won't	from cat)	do	¹ we*
		because	want
28	¹ rat*		heard
bite	gnaw		rolled
home	37	43	
to-night	¹ me*	after	53
			stop
29	cheese		for
stick	(ot-not)	44	
¹ beat*	¹ got*	squirrel	54
	gave	cries	(aw-gnaw)
30	38		¹ saw*
fire		48	good-day
burn	began	<i>bee</i>	fast
		flew	
31	¹ that*		57
water	night		cock
quench	39	49	
some	goat	laughed	63
			brook
32	40		swim
(o.r-fox)	into	50	
ox*	woods	buzz	64
drink	grass	sting	on
		thank	<i>snout</i>
33	41		out
butcher	go		good
(ill from	would	51	are
will)	my	(ake-make)	ate
¹ kill*	cry	¹ pan-cake*	<i>up</i>

¹Consonant sound must have been previously taught.

65		72	87	95
chicken		Foxy Loxy	(ee-bee) ¹ see*	leather (ow-how)
66		75	horns	¹ cow*
<i>fell</i>		(en-hen)		
his		¹ den*	88	96
tail		(out-snout)	at*	corn
¹ sky*		out*		farmer
is		again	89	
falling			Tuppens	97
67		76		¹ plow*
Henny Penny	three		90	
<i>how</i>	Billy		her	98
know	gruff		them	blacksmith
of		78	91	
68	once		choking	99
Turkey Lurkey	were		¹ spring*	iron
(ell-fell)	great		please	dwarfs
¹ tell*		79	give	
(ing-king)	hillside		(up-up)	101
¹ king*	¹ fat*		¹ cup*	help
they	bridge			(ound-found)
told			92	¹ ground*
69		80	oak tree	
Ducky Lucky	troll		¹ shake*	102
eyes	under			shook
ears		93		
			shoes	103
71	went	81		spiders
Goosey Loosey	trip		94	first
			shoe-maker	web

¹Consonant sound must have been previously taught.

104	106	108	111
spinning	hum	ant	happy
¹ swing*		fro	
	107		
	cricket		110
105	butterfly	bird	
¹ fly*	chirp	¹ sing*	

The work for each succeeding book should be a continuation of this vocabulary. If the teacher should desire to do less work in phonics she may eliminate some of the less necessary families.

After a few months' or a year's study in phonics, the process may be shortened by teaching the sounds of certain combinations of letters without reference to the family idea, as in the combination *ai*. If this is taught the child can make out almost any word containing this sound as mail, paid, rain, and wait. Following is a suggestive list of combinations which may be taught; *ou*, *ea*, *or*, *on*, *ar*, *ie*, *ir*, *ur*, *aw*, *oa*, *oi*, *au*, *ai*.

In the latter part of the third grade the teacher may begin to train the child to use the dictionary, teaching him the long and the short diacritical marks, and then training him to look up words containing those sounds. She should help him to sound out these words. Later, she may extend the use of the dictionary by teaching some of the other diacritical marks that he will need in looking up the pronunciation of the new words in his reading lesson. A child has very little use for the diacritical marks except as he uses the dictionary. Following is a list of some of the common diacritical marks which may be taught in connection with dictionary

¹Consonant sound must have been previously taught.

study: ä-arm; a-at; a-all; â-care; e-fern; ô-orb; u-rude; u-full; û-urn; öö-food; oo-foot.

Beacon Plan. Another idea for grouping phonetic words is advocated in the Beacon reader. In this method the long and the short vowel sounds are linked with the initial consonant. For example, pa-t, sa-p, ra-n.

The short vowels are taught first, since the short sound is a part of many more words than is the long sound. After the child is thoroughly familiar with the use of the short sound, he is taught that the *e* added to the end of the word makes the vowel tell its name.

The subject-matter for the phonetic work according to this plan would be something as follows: the short vowels, a (long), ai, ay; i (long), ie, y; o (long), oe, oa, ow; u (long), ue, ew; e (long), ea, ee; oy, oi, ow, ou, aw, au, oo, ea, en, ur, ir, ight, ing, oo (wood), ar, er, eight, etc.

The course of study would be outlined according to the directions previously given.

After the child has been taught a vowel sound he should have practice in blending it with the consonants. When he has been taught short *i*, he should then blend it with the common consonants, as bi, ti, fi, si, etc. The more common consonants should be taught before teaching a vowel in order that he may not be hampered in using his phonetic knowledge in making out the phonetic words of his vocabulary.

METHOD

If the teacher is to use the phonetic element successfully in teaching the child to read, she must have a thorough knowledge of the elementary sounds of the

English language. If she is not familiar with these sounds, she should master them before attempting to use them in the classroom. One of the most satisfactory ways of learning these sounds is to repeat slowly, three or four times, any familiar word containing the given sound. An effort should be made to give this sound distinctly. For instance, to obtain the sound of *b*, the word *cab* should be pronounced. It should be pronounced again more slowly as *ca-b*. The voice should be allowed to linger on the last sound, which is the sound of *b*. It will be well for the teacher to spend much time practicing on the following list of words. She should not stop until each sound can be given correctly. To test the correctness of a sound, she should pronounce slowly other words containing the same sound.

To obtain the sound of *b* practice on *cab* and *ball*.

To obtain the sound of *c* practice on *cat*.

To obtain the sound of *f* practice on *stiff* and *fan*.

To obtain the sounds of the following consonants practice on the words which are separated from the letter by a dash: *d*-bed, -day; *g*-rag, -get; *h*-hot; *j*-jump; *k*-king, -look; *l*-fall, -love; *m*-ram, -man; *n*-pan, -not; *p*-rap, -pan; *qu*-queen; *r*-bar, -rat; *s*-kiss, -see; *t*-pet, -tell; *v*-love, -van; *w*-wet; *x*-box; *y*-you; *z*-fuzz, -zone; *sh*-push, -she; *ch*-child; the breath sound of *th*-thin; the voice sound of *th*-then; *wh*-what.

The sounds of the diphthongs and of the sound families should be developed and practiced in a manner similar to that used for the consonant sounds.

The purpose of the phonic lesson is to develop the instantaneous association of the sound with its written or printed symbol, and to train the child to independence through the use of his phonetic knowledge. The drill

for the instantaneous association of the symbols should be very thorough.

As previously stated, after a sound family has been taught, the teacher should always insist that the pupil use this knowledge in making out new words containing this sound. If he has been taught the sound of *m* and of *ay*, and the word *may* presents itself to his eye for the first time, she should have him sound out this word by having him cover the *ay* which leaves *m* exposed; after he has given this sound, he should be lead to discover that he knows *ay*. He should then make these sounds one after the other, which will give him the word *may*. This seems a slow process, and at first it is slow, as it would be much quicker and easier for the teacher to tell the child the word, but by taking time to train him to use these forms of control that he has already established, she is laying the foundation for independent study, which is valuable to the child.

When the sound of the same combination of letters varies, as in *ow*, the child should first be taught the sound that occurs the more often in his reading vocabulary. Later, when he is taught the other sound and finds an unknown word containing this combination of letters he must try first the one and then the other, selecting the one which gives a word that makes good sense in the context.

LESSON PLAN

A preliminary ear and voice training in phonics is carried forward from the first day of school in the form of games or exercises. This work is *entirely oral*, and should be kept up until the child can clearly detect the phonetic sounds in simple words, and until he has gained

some skill in uttering words phonetically. By allowing five minutes a day to this work it should be accomplished in from two to three weeks.

ILLUSTRATIVE LESSONS

- I. *Subject:* Phonics.
- II. *Topic:* Ear and voice training in phonics.
- III. *Teacher's Motive:* (1) To train the child to hear the sounds in words. (2) To train him to utter words phonetically.
- IV. *Child's Motive:* (1) To act out the sentences. (2) To play the games. (3) To act as teacher.
- V. *Subject-matter and Procedure:*

SUBJECT- MATTER

PROCEDURE

Lesson 1

r-un "Did you ever hear any one stutter? Could you understand him? I wonder if you could understand me if I should stutter? If you understand me, I want you to do what I say. I want some one to r-un. I want some one to j-ump. I want some one to h-op. I want some one to sk-ip. Sit on my ch-air. Sh-ut the door. F-ind a book." The teacher should continue this exercise for at least five minutes with additional directions, allowing a child to perform each direction as given.

Lesson 2

h-air "I wonder if you can understand my slow way of talking today? Smooth your h-air. Touch your n-eck. Rub your thr-oat. Lift your f-oot. Bend your kn-ee. Sh-ow your t-eeth. Touch your l-ips. Stand on one l-eg." The teacher should continue with additional directions for at least five minutes.

Lesson 3

b-ook
d-oll
h-at
b-ird
tr-ee
n-est
fl-y
s-ing

"I shall tell you what I saw this morning as I came to school. I shall speak some of the words slowly and I want you to tell me what they are. I saw a big girl with a b-ook. I saw a little girl with a d-oll. The doll wore a h-at. I saw a pretty b-ird. It was in a tr-ee. It has a n-est. I saw it fl-y. I heard it s-ing." The teacher should continue with additional sentences.

Lesson 4

t-able
d-esk
w-all
b-oy
g-irl
ch-alk
ch-air

"I am going to play that I am just learning to talk and all I can say is the first sound of a word. I will touch some object in the room and give the first sound and then I want you to tell me what it is." The teacher touches the table and gives the sound of *t*. The children say "table." She then touches the desk, wall, a boy, a girl, and a chair giving the initial sound of each in turn.

Lesson 5

find
mind
come
some

The teacher asks the children to tell her the first sound of the words she pronounces. She says "find" and the children give the sound of *f*. She then pronounces a selected list of words.

Lesson 6

A child plays teacher in the game of touching objects given in the fourth lesson, and gives the initial sound.

Lesson 7

A child plays teacher and gives directions as in lesson one.

Lesson 8

A child plays teacher and gives directions as in lesson two.

Lesson 9

A child tells what he saw as he came to school as in lesson three.

Lesson 10

f-ind

m-ind

k-ind

w-all

t-all

s-ing

r-ing

sl-ing

sh-eep

"I wonder if you can tell me what these words are?" The teacher speaks the following words slowly; "f-ind, m-ind, k-ind, w-all, t-all, s-ing, r-ing, sl-ing, sh-eep." She should continue with additional words.

"This time I want you to say each word slowly as I do and then tell me what it is."

These lessons should be continued until the child is able to give a word instantly when he hears it uttered phonetically and until he has gained some skill in uttering words phonetically. He is then ready to begin the second step in the study of phonics, that is, the connecting of the sound with the sight symbol. The teacher should select some word which has been thoroughly taught as a sight word and proceed along the line of the following plans:

First or Second Grade

I. *Topic:* Sound of *r* from sight-word *run*.

II. *Teacher's Motive:* To train the child to give the sound *r* automatically whenever he sees the letter *r*.

III. *Child's Motive:* (1) To repeat the word phonet-

ically. (2) To discover the first sound and the letter which represents it. (3) To write the sound on the board. (4) To find the sound on cards or in the book.

IV. *Subject-matter and Procedure:*

SUBJECT-MATTER	PROCEDURE
	1
The recall of previous experiences with the sounds relating to the lesson.	Preparation: The teacher begins with a brief review of lessons four, five, and six which were given on page 89.
	2
r-un	Presentation: She then holds up the card with <i>run</i> printed on it. "Name this word for me. Let us say it slowly. Now I will cover up the last part of the word and let you say the first part. Now the last part." She has the children to say the word slowly two or three times. "This time I want you to say only the first part while I cover up the last part." This will leave the <i>r</i> exposed. "What is the sound of this letter? You tell me, Mary, John, Fenton." For drill purposes the single letter <i>r</i> should be on the reverse side of the card. "Let us see how it looks when it is written." She places the letter on the board and has several children to copy it on the board.
4	4
The finding of the sound <i>r</i> in other words.	Application: "Let us see if we can find some other words with this

sound." The teacher holds up cards on which are known sight-words and allows the children to point out any word containing the *r* sound. When a word is found it should be pronounced slowly to see if the sound is the same. If the children have a book the application may be made to the book. The lesson should close with a drill on this and any sound which has been previously taught.

First, Second, or Third Grade

I. *Topic*: *ay* family from the sight-word *play*.

II. *Teacher's Motive*: (1) To teach the child a sound family. (2) To train him to use this family in making out new words.

III. *Child's Motive*: (1) To discover something that is to make him independent in his study. (2) To repeat the word phonetically. (3) To discover the sound of the last part. (4) To see if he can make out other words that belong to this sound family. (5) To discover a word in the lesson that belongs to this sound family. (6) To learn the family so that he may make out words for himself.

IV. *Subject-matter and Procedure*:

SUBJECT-MATTER

1

The recall of experiences connected with the study of the reading lesson.

PROCEDURE

1

Preparation: "Who helps you study? How would you like to learn to study by yourself? We are going to learn something today that will help you. Watch and see what it is."

2

ay-play

day
say
may
ray
lay
way

2

Presentation: "What is this word?" The teacher holds up a card with *play* printed on it. "Let me see if you can repeat this word slowly. Let us see what the sound of the first part is." She covers up *ay* and has *pl* sounded. She then covers up *pl* and has the sound of *ay* given. "What is this (ay) sound? Did you know that words belong to families just as people do? What part of your name is common to all your family? The sound of the last part of the word is its family name. What is its sound? Then to what family does it *belong*? Here are some words that belong to the *ay* family. Let me see if you can tell what they are." The words of this list must be the blending of previously taught consonant sounds and the *ay* sound. The teacher should help the children by covering up the *ay*, leaving the consonant exposed. She then uncovers the *ay* and has it sounded. She then leads them to blend the consonant sound with the sound family.

4

The finding of the sound in the new lesson.

4

Application: "Open your book to tomorrow's lesson. See if you can find a word belonging to the *ay* family." When the word is found the teacher should help the children to sound it out. After a sound family is taught she should always insist that during a study period they sound

out any word containing this sound. "Let us see if we can learn this sound so that we may know it and be able to sound out words for ourselves. Let us write it on the board." The teacher then has a drill on this family and any previously taught sounds. "What have we learned that will help us study by ourselves?"

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CHAPTER VIII

THE STUDY LESSON

(READING—CONTINUED)

A supervised study lesson in reading should consist of (1) the discovery of a problem, (2) the analysis of the difficulties, and (3) the establishing of correct study habits.

1. **Problem.** The assignment or discovery of a problem is the first step. The laws of apperception, interest, and aim are essential parts of this step. How shall the immediate interest of the child be secured and the problem be made vital to him? Just what experiences should the teacher help him recall in order that he may have a proper apperceptive basis? To answer these questions the teacher must understand the child and must be familiar with his daily life.

A question, a picture, or an object will often prove very effective in securing his interest and in providing the proper apperceptive basis. If the lesson is about a mountain and the child has never seen one, the teacher will need to recall his experiences with hills. If this, too, is not his experience, she should help him to an understanding of a mountain by using pictures, or sand-table, or by calling his attention to the clouds which often look like miniature mountains.

Variety in the choice of the problem will do much toward keeping the child's interest and in making the

problem seem worth while. It should be of such a nature that the study of the lesson is necessary before it can be finally solved. A problem may be assigned to the entire class or different problems may be assigned to different groups.

Following are some suggestions for motives or problems for the study of a reading lesson:

- (a) To be able to tell certain things about the lesson.
- (b) To be able to tell the story of the lesson.
- (c) To be able to read the lesson to the pupils of another class so that they will enjoy it.
- (d) To be able to find and read a paragraph or sentence which the teacher or a classmate may illustrate.
- (e) To be able to dramatize a sentence or a paragraph from the lesson. This sentence or paragraph must be found and read by the other members.
- (f) To be able to take the part of a character in the dramatization of the lesson.
- (g) To be able to find and read the sentence or paragraph which will answer a question given by the teacher or a member of the class.
- (h) To be able to read the sentence or paragraph which he likes best.
- (i) To be able to describe something in the lesson.
- (j) To be able to divide the lesson into topics. Certain groups are to read the section which is covered by a certain topic.

2. **Difficulties.** The difficulties of the reading lesson should consist of new sight words, new phonetic words, difficult sight words previously presented, phonetic words previously presented, and phrases and sentences the interpretation of which may prove difficult. The new sight words and phrases should be presented in connection with the context or in sentences which may be placed on the board. The difficult sight words should be reviewed in an interesting way. In the phonetic work,

the child should either be taught the sounds necessary to make out the words for himself or he should be helped in discovering that he already has this knowledge. This work will take patience. It would be easier to tell him what the word is than to train him to study it out by the use of sounds, but patience will pay as he rapidly gains habits of independence in overcoming difficulties.

3. Habits of Study. The child should be trained to recall the assigned problem at the beginning of the study period and to keep it constantly in mind as he studies. He should be made to realize that the study is finished only when the problem is solved. He should be trained to attack any difficulty which he meets with in his study. If it is a difficult word, he should strive to make out its pronunciation by the use of his phonetic knowledge. If this is not possible, he should then try to discover its pronunciation from the context. If it is a difficult phrase he should try to discover its meaning from the context. These also are slow processes but they are infinitely worth while inasmuch as they are necessary to independence in study.

ILLUSTRATIVE LESSONS

First Grade

I. Topic: "The Fox and the Little Red Hen." Part I. A lesson unit to be given on same day but at different period.

II. Teacher's Motive: (1) To awaken the child's interest in the new lesson. (2) To teach him that study means the solving of a problem. (3) To make study interesting to him by anticipating and overcoming such difficulties as would retard study.

III. *Child's Motive:* (1) To be ready to read certain sections of the story. (2) To be able to find and to read any sentence which the teacher may choose to illustrate. (3) To learn words, phrases, and sounds so that he may study his lesson without help. (4) To play the game used in the drill lesson. (5) To find the phonetic words in the new lesson.

IV. *Subject-matter and Procedure:*

THE FOX AND THE LITTLE RED HEN

“A little red hen lived
in a little house in the woods.
She had a little bedroom,
a little parlor, and a little kitchen.
There was a little cupboard
in the kitchen.

“Over the hill a sly fox lived
in a den with his mother.
He wished to catch the little red hen
and eat her.
But she was a wise little hen.
She kept her eyes open
and her door shut.

“One day the fox got a big bag.
‘Mother, put the pot on,’ he said.
‘I will get that red hen to-day
and have her for dinner.’
And he went over the hill
to the little red hen’s house.
Just then she came out

to get some wood for her fire.
She did not shut the door this time.
The sly fox crept into the house
and hid behind the cupboard."

—*The Child's World First Reader*

SUBJECT-MATTER**PROCEDURE**

Period I. This will usually come just at the close of the reading recitation.

1

The recall of experiences with the enemies of chickens

1

Preparation: "Did you ever visit in the country? Did the people keep chickens? Did you ever hear of anything trying to catch them? How did the fox or opossum manage to catch them?"

2

a. Problem: To be able to find and to read any sentence which the teacher may illustrate.

2

Presentation: "Our new lesson tells about how the fox tried to catch a little red hen. I want you to be ready to read the section that describes the home of the little red hen, the section that tells why the fox had not been able to catch her, and the section which tells the plan he finally used." This will be pages 99 and 100.

"Let me tell you what I am going to do tomorrow. I am going to draw some pictures to illustrate different sentences in the lesson, and I will see if you can find and read the sentence. After you have read it to us we will decide if you are correct.

What shall you have to do if you are able to take part in the lesson?" He will have to study the entire lesson.

Period II.

"What do you do when you go home?" The teacher should insist that each child answer in a complete statement. "I will write what you have said on the board." She should call the child's attention to the beginning of the sentence with a capital and to the placing of the period at the close.

"Who would like to read this sentence? Find where it says *dinner*. Find the card with *dinner* on it."

"Did you ever go to the woods on a picnic or to gather nuts? When did you go? I will write what you said on the board." She places the sentence on the board, and has it read, then the word *woods* is pointed out and found on the card.

"What do you call the room in which you sleep?" The sentence is placed on the board and read by some one. The word *bedroom* is pointed out and found on the card. A drill lesson is given on these words. (See Chapter VI, pages 75 to 76.)

At another period a drill lesson is given on the difficult sight words.

"Did you ever hear any one say that some one was *sly*? What did he mean? In our new lesson the fox is called a *sly fox*. What does that mean? I will write 'He was a

b. The development and the drill on the new sight words, difficult sight words, and phrases.

(1) New Words:
I eat *dinner*.

"I went to the *woods* last summer."

"We call it a *bedroom*."

(2) Review of difficult sight words: *there*, *lived*, *wished*, *kept*.

(3) Interpretation of difficult phrase:
sly fox

(4) a. Sounds:
y from sky.

Review sounds:
en, ill, s, l, d, h, w, th
(voice).

b. New phonetic words
den, sly.

Review phonetic words:
hill, will,
hen, then.

sly fox.' " She has this sentence read
and the phrase pointed out.

The new sound family y is developed as in the illustrative lesson on
the introduction of a sound family,
Chapter VII, pages 92 to 94.

The review work in phonics is conducted as in the illustrative drill lesson.
(Chapter VI, pages 75 to 76.)

The teacher then has the children turn to the new lesson, and she allows them to find the phonetic words belonging to the families used in the drills.

In the supervised study of the lesson the teacher should insist that the children sound out every phonetic word which they do not know. For example, she asks them before they begin to study, "When you find a word that you do not know, what are you going to do? Yes, see if you know the family to which it belongs, and if you do, you will sound out the word."

4

The study of the lesson as a whole.

4

Application: At the beginning of the study period the teacher should help the children to recall the problem which they are to solve. At the close of the period, she should again have the problem stated and allow each child to decide for himself if he has solved it. When a child comes to a difficult word or phrase she should encourage him to discover its pronunciation or meaning by using his phonetic knowledge or from its use in the context.

Second or Third Grade

I. *Topic: The Wonder Flower, Part I.*

II. *Teacher's Motive:* (1) To awaken the child's interest in the new lesson. (2) To teach him that study means the solving of a problem. (3) To make study interesting by anticipating and overcoming such difficulties as would retard the study.

III. *Child's Motive:* (1) To be able to find and to read any paragraph which the teacher chooses to illustrate. (2) To learn words, phrases, and sounds so that he may study his lesson without help. (3) To play the games used in the drill lesson. (4) To find the phonetic words in the new lesson.

IV. *Subject-matter and Procedure:*

The Wonder Flower, Part I

"There was once a little shepherd boy, named Carl, who herded the sheep of a rich man.

"Carl and his mother lived in a tiny house with a tiny garden around it. The house and garden, with a white goat, were all they had in the world.

"A deep river ran near Carl's home. Not far away were the great forests and the high mountains.

"Carl loved the shining river, the green forests, and the high mountains. He loved the singing birds and the gay butterflies. But he loved still more the beautiful flowers that grew by the side of the river, in the green forest, and on the mountain.

"Every morning Carl guided his sheep down to the river, and herded them there all day. When night came, he guided them back to the fold. Then he hurried to his home under the fir trees at the foot of the mountain.

"But you must not think that Carl played even then. There was the wood to cut, the garden to work, and the white goat to milk. Carl's mother was not very strong, and she had to spin all day long and, sometimes, until late in the night.

"Carl loved her too well to let her do the work that he could do. And though they were very poor, Carl and his mother were quite happy in their little home at the foot of the great mountain."

—*Haliburton's Second Reader*

SUBJECT-MATTER

PROCEDURE

1

1

The recall of any experience connected with the name Carl.

Preparation: "Do you know any one named Carl? Where does he live? How does he help his mother?"

2

2

The Wonder Flower

a. Problem: To find and to read any paragraph illustrated by the teacher.

Presentation: "Our new lesson tells about a boy named Carl. I wonder if he is anything like your friend Carl? We will read the first part of the story. Let me tell you what I am going to do tomorrow. I am going to draw some pictures to illustrate the different paragraphs in the lesson and I want you to be able to read the paragraph you think I am illustrating. Then we will decide if you are right. What shall you have to do if you are able to take part in the lesson?"

"What must you know before you can read your lesson? Yes, the new

b. Difficulties:**(1) New words:**

shepherd

Carl

butterfly

words. Let us see how quickly we can learn them.

"What do we call a man who cares for sheep? Here is the word *shepherd* on the board, and it is in your new lesson also.

"What is the boy's name in our lesson? Here is *Carl* written on the board. What was this first word? (shepherd.) What is the second? (Carl.)

"How many have seen butterflies? We will read of butterflies in tomorrow's lesson. Here is the word *butterfly* on the board."

The teacher then has a word drill on all the words presented. (See Chapter VI, pages 75 to 76.)

(2) Phrase:the shining
river

"How many of you have seen a river? How did it look? How did it look when the sun shone on it? In tomorrow's lesson it says that Carl loved the shining river. What do you suppose it means by *the shining river*? Let me write, 'Carl loved the shining river.' She has the sentence read and the phrase pointed out.

(3) Phonetic words:

(review)

(a) ich-rich

oat-goat

eep-deep

ear-near

ing-shining

-singing

ong-strong

-long

The teacher has a short card drill on the sound families found in the lesson. She then has the children turn to the lesson and allows them to find the words belonging to these families. When a word is found, it is placed on the board and sounded out. This part of the lesson should close with the question, "When you find a word in your lesson which you do not know, what are you go-

ing to do? Yes, see if you know the family to which it belongs, and if you do, you can sound out the word."

4

The study of the lesson.

4

Application: At the beginning of the study period the teacher should have the children recall the problem. At the close she should again have the problem stated and allow each child to decide for himself if he has solved it.

If they find a word or phrase which they do not know she should help them to discover its pronunciation or meaning by the use of their phonetic knowledge or from the context.

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CHAPTER IX

THE RECITATION

(READING—CONTINUED)

AIM

In the reading recitation the aim should be to develop the child's initiative, his power for clear, systematic thinking, his power of expression, the ability to gather thought from the printed page, the ability to think and to talk while standing, and skill in the judging of values.

The child should be trained to recognize whether or not he has sufficiently studied his lesson. He should learn that the preparation of the lesson is not a matter of reading it over a certain number of times, but that of studying until the problem in the assignment has been solved. He should be trained to report any unsolved difficulty in class, for example, a difficult word, a passage whose meaning is obscure, or the proper way to express a certain passage.

The real test of the reading is not how well the child is able to read in the schoolroom but the use he makes of this ability in practical life. He should be encouraged to read his lesson or to tell the story after careful preparation to his small brothers, sisters, mother, father, grandparents, or playmates.

I. SILENT READING

Aim. The purpose of the silent reading recitation is to train the child to gather the thought of the printed

page accurately and rapidly. Inasmuch as silent reading is of such importance the teacher should plan to give the child definite training in it. In other words, it should be a definite part of his training from the day he enters school until he finishes.

Method. The first lessons will usually take the form of action sentences which the child reads silently and then acts out. For instance, he reads silently the sentence, "Run to a boy," and then performs the act without speaking a word. Later he can read a sentence or paragraph silently and then illustrate it by a crude drawing, free hand paper cutting, or by clay modeling. The sentence, "There was a small cupboard in the kitchen," may be illustrated by drawing a picture of a cupboard, by cutting a cupboard from paper, or by modeling one from clay. Any one of these may be done without oral reading.

If a question appears in the reading lesson, the child may be allowed to read the question silently and then answer it. "Can you read?" is read silently and he answers, "Yes, I can read."

As the child gains power in reading, the entire recitation period may be given over to a silent reading recitation in which the teacher asks questions about a sentence or a paragraph and he reads the sentence or paragraph silently and then answers the question in his own words. Later he may be trained to ask questions about the lesson, the answers to be given by another child.

A group of children may read certain sections of the lesson silently and then give a pantomime of the scene. In the story of "The Fox and the Little Red Hen" the section which gives the plan of the fox may be acted out. The entire lesson may be read silently and then

the book laid aside and the story dramatized. The book is to be referred to only in event of a dispute.

Rate in Reading. It has been previously shown that the rapid reader is the more intelligent reader; that he gains more intensive and more vivid impressions than does the slow reader; that he gains these impressions more quickly; that he retains them longer. Rapidity in the gathering of thought from the printed page does not come through oral reading but through persistent, well-directed practice in silent reading.

The teacher should plan definitely how she is to train the child to rapidity in silent reading. Inasmuch as this rapidity is not possible without rapid word recognition, this is the first step in the process. It should begin by training the child to recognize words after only an instant's exposure. This should be gradually extended to groups of words, as "a little boy," then to short sentences, as "I see a little boy." These may be printed on strips of tag-board or heavy paper. In this work it is best to use only words with which the child is thoroughly familiar, since the end is not word recognition, but rapid word recognition.

In the second or third grade each of the children may be given a new book containing easy reading. A section which is to be read in a certain length of time is designated. When the signal is given all are to close their books. The aim is to see who can best give the thought of what was read. This should be continued until each child has had the opportunity to give the thought of a section.

The habit of rapidity in reading may be greatly retarded if the subject-matter of the regular book is too difficult as to words or thought, since the child is more

than likely to form the habit of reading slowly. Anything which tends to make him a slow reader is to be discouraged.

II. ORAL READING

Aim. The purpose of oral reading is not to discover whether the pupil can recognize the words of the lesson, but is to help him to understand and to interpret the meaning and the spirit of the selection. A minor purpose is to train him to express the thought in a manner which will be pleasing to his audience.

Method. The teacher should always be sure that the child has had the experience necessary to the understanding of the selection, and that he has the proper stage setting; in other words, he must be led to form a vivid mental picture of the characters and of the events in the story. These vivid mental pictures are a necessary basis for good oral reading, inasmuch as expression is a natural outcome of a vivid impression. When the child has gained the ability to form these pictures through his silent reading, the droning of words will disappear and his oral reading will be more realistic.

One of the most effective ways to guide the child in the interpretation of a selection is by a well directed question which will cause an important point to stand out clearly. For example, "Where did the little red hen live?" Questions will also be very effective in leading him to find the heart or the key sentence of a selection. For instance: "Why was such a title selected for this story?"

The child should be trained to read by sections, for instance, "Read the part that tells what Forest Rover's

mother gave him on his birthday." At first this will be slow work, but if the teacher perseveres she will find that he will develop considerable skill. Not only will reading conducted in this way help him in the interpretation of the selection, but it will also develop his power for clear thinking.

As previously stated, dramatization and dialogue reading help to make the oral reading more realistic to the child. Selections in which the conversational element predominates should usually be dramatized or read as a dialogue. No equipment will be needed, as the child is very imaginative and enjoys imagining the stage scenery of the story. The stronger readers should be selected for the difficult parts, allowing the slower ones to read the easier parts.

In his interest to express the thought gathered through silent reading, the child will often omit words and substitute others of similar meaning. For example, the use of the word *strong* for *stout*. This is perfectly natural and no attention should be given to it, as the purpose of the lesson is not exact word calling, but the interpretation and the expression of the thought. To require him always to give an exact reproduction of the words of the selection will often result in his attention being directed to the words, and he will lose sight of the thought behind the words. An exception to this rule should be made in the case of the child who changes the wording through carelessness.

For this same reason, class criticism is likely to result in losing sight of the real purpose of the lesson, and the recitation is given over to watching for possible mistakes. In other words, it is not desirable for the child to act as a critic since this is likely to spoil the whole spirit and

purpose of the recitation. The teacher should not interrupt a child with a criticism while he is reading unless the error is a very glaring one.

When a child is reading orally and comes to a word which he does not know, the teacher should pronounce it for him instantly, otherwise the thread of thought is lost. A note may be made of the word and his attention called to it when he has finished.

If oral reading is to be done in a pleasing manner there are certain desirable recitation habits which should be formed.

(1) The child should face the class when he is reading. This will provide him with an audience which should inspire him to more realistic reading. (2) He should stand erect, and hold his book with both hands. The book is held by the lower edge. (3) He should be taught the proper way for turning the page. When going forward, turn from the upper right-hand corner, and when going backward, turn from the lower left-hand corner. (4) A beginning child often has difficulty in keeping the place during the oral reading recitation. He may be permitted to use a small card which he places either above or below the part to be read. He should be encouraged to discontinue this as quickly as possible. (5) A first-grade child should be required to read a sentence silently before he reads it orally. He should then look at the class and tell what he read. This should be kept up until he has become somewhat skillful in reading. Whenever a second- or third-grade child stumbles in his oral reading he should be stopped and required to read the part silently, then orally. (6) Any lip movement in silent reading should be discouraged inasmuch as this results in slow reading. (7) The child should not be allowed to

form the habit of pointing at words in silent or oral reading, as this, too, will tend to result in slow reading.

LESSON PLANS

Contents. If the lesson has been properly assigned the teacher will have become thoroughly acquainted with the subject-matter of the lesson. All that she should have to do in planning the recitation should be to look over the lesson and decide the form of recitation to which it is best adapted, or in what way she can best handle the recitation in order that the child may reap the greatest benefit from it.

Teacher's Motive. In planning for the recitation it is essential that the teacher decide just what she wants the child to gain from this recitation. Is it best to make it a habit-forming lesson, or one that will develop initiative and individuality? Shall she plan it in such a way as to develop his power for systematic thinking or to develop his power of expression? Shall it be a lesson in gathering thought from the printed page or in developing his ability to think and talk while standing? Or shall it be a lesson to increase his rate in reading? These motives or purposes overlap more or less, and any recitation, whatever its direct purpose, will likely forward more than one of these motives.

Child's Motive. In planning for the recitation it is also essential for the teacher to decide how she can arouse the child's active interest so that he may get out of the recitation just what she desires. Following is a list of suggestions for possible motives for the child:

1. **Oral Reading.** (a) To be able to read so that his teacher and classmates shall form vivid mental pic-

tures of the thing read. (b) To read just as he thinks the character talked. (c) To learn to read so well that he may read the story to some one. (d) To be able to find and read the part which answers a question given by the teacher or a classmate. (e) To read certain sections, or certain things that happened in the story. (f) To read the section illustrated by the teacher. (g) To read the section which has just been dramatized. (h) To outline the lesson, then name and read a section. (i) To be able to name words, phrases, or sentences which are exposed for an instant only.

2. **Silent Reading.** (a) To be able to dramatize a sentence or paragraph. (b) To be able to answer the questions of the book. (c) To be able to illustrate certain sentences, paragraphs, or sections. (d) To be able to give a pantomime of certain sections or to dramatize the story. (e) To be able to answer questions asked by pupils or teacher. (f) To be able to outline the lesson and then give the substance of the thought of each section. (g) To be able to read rapidly and then to give the thought of a section of the lesson.

Class Procedure. Class procedure should include the preparation for the new subject-matter, its presentation, and often the suggested application. This part of the plan is of the utmost importance since on it depends the success of the recitation. The teacher must know just how she is to handle the subject-matter in order successfully to accomplish her aim. She must have planned carefully how to arouse the child to the consciousness of a practical reason for doing the thing she desires done. Her questions should be very clear, definite, and to the point.

ILLUSTRATIVE LESSONS**First Grade**

I. *Subject*: Silent Reading.

II. *Topics*: "The Fox and the Little Red Hen."

III. *Teacher's Motive*: (1) To test the child's power in gaining the thought of the lesson. (2) To train him in gathering the thought from the printed page by the use of motor activity. (3) To train him to gather the main thought of a section of the lesson.

IV. *Child's Motive*: (1) To show how much he knows about the lesson without referring to the book. (2) To be able to give the thought of a sentence or a section of the lesson. (3) To illustrate the different sentences by drawings. (4) To dramatize a section of the story.

V. *Subject-matter and Procedure*:

SUBJECT-MATTER

1

The recall of the facts gained in the study period. (See Chapter VIII, pages 97 to 101.)

PROCEDURE

1

Preparation: "What is our lesson about? I wonder how much you know about it? Suppose we first have a lesson with closed books. Where did the little red hen live? How many rooms did she have? Where did the old fox live? What kind of fox was he? Why do you suppose he was called a sly fox? Why had he not been able to catch the little red hen? What did he get to carry her in? What did he tell his mother? How did he get into the house? Where did he hide?"

2

The Little Red Hen and the Fox. (See Chapter VIII, pages 98 to 99.)

- a. The first section.
- b. The second section.
- c. The third section.

2

Presentation: "Take your book and read the first three sentences silently, and then tell me what they are about. Draw me a picture that will illustrate these three sentences. Find just what the next four sentences are about. What do they tell? Find what the remainder of the lesson tells. Could you dramatize that part? Mary may come and manage it. How many children will it take, Mary? Where should they stand? Very well, you may choose the children and tell them where to stand." The children are to act out this section of the story with Mary as critic.

4

The dramatization of the story for another grade.

4

Application: "Tomorrow you may go to the second-grade room and dramatize this story."

I. Subject: Oral reading recitation.

II. Topic: "The Fox and the Little Red Hen."

III. Teacher's Motive: (1) To help the child grasp the thought of the story. (2) To train him to express this thought in a pleasing manner.

IV. Child's Motive: (1) To find and to read the sentences illustrated. (2) To express the thought in a natural and a pleasing manner.

V. Subject-matter and Procedure:

As a rule the oral and the silent reading lessons should be combined and given as one lesson. This makes a smoother and more interesting type of lesson.

SUBJECT-MATTER

PROCEDURE

1

1

The recall of the assignment made in Chapter VIII, pages 99 to 101.

Preparation: "What is our lesson about? Which parts did I tell you to study? What was I to do? What are you to do after I draw the picture? Very well, see who can find this sentence."

2

2

"A little red hen lived in a house in the woods."

Presentation: Sketch a house with some trees near by. "Find the sentence this picture illustrates. Mary may read her selection. Was that your selection? Did you imagine you saw a house in the woods as she read? Sam, see if you can make us see it."

"Just then she came out to get some wood for her fire."

The same picture is used for the next sentence with the addition of the little red hen by a pile of sticks. "Who can find the sentence this picture illustrates? Helen may read her selection. Was that your choice? Did you imagine you saw the little red hen coming out of the house and going to the wood pile as Helen read? Glen, see if you can read it in such a way that we may see her."

"One day the fox got a big bag."

The teacher draws a fox with a bag on his back. She then has this sentence found and read as illustrated above.

"A little red hen lived in a house in the woods."

"Suppose you begin now and read the story in the order that it is told in the lesson. Who would like to read the section that tells where the

"She had a little bedroom, a little parlor, and a little kitchen."

"There was a little cupboard in the kitchen."

little red hen lived? Suppose I did not know where she lived and were to ask you, how would you say it? See if you can read it just as you would tell me."

"Read the part that tells about the different rooms. If you had been to visit the little red hen, how would you tell me about her rooms, John? How would you tell me, James?"

"What did the little red hen have in her kitchen? Do you suppose that was all she had? Then why is this especially mentioned? Read it just as you would tell me about it."

This procedure should be continued through the entire lesson. By means of questions and suggestions the child should be helped in expressing the thought in a pleasing manner.

4

The reading or telling of the story to parents.

4

Application: "Read or tell this story to your father and mother."

Second or Third Grade

I. *Subject:* Silent Reading.

II. *Topic:* "The Wonder Flower." Part I.

III. *Teacher's Motive:* (1) To test the child's ability in gathering the thought from the printed page. (2) To teach him systematic thinking by outlining the lesson. (3) To develop his power of expression. (4) To train him to give the substance of the thought by sections. (5) To train him to think clearly while standing.

IV. *Child's Motive:* (1) To show that he knows the lesson by answering the questions which the teacher asks.

(2) To find the different sections of the story. (3) To come before the class and tell the different sections from the outline.

V. *Subject-matter and Procedure:*

SUBJECT-MATTER	PROCEDURE
1	1
The recall of the thoughts gained through the study lesson. (See Chapter VIII, pages 102 to 105.)	Preparation: "What is the title of our lesson? Does this fit the section we had today? What would be a better title? I wonder how much you know about this story? Let's see if you can answer my questions without referring to the book." If the teacher so desires, she can give the children a lesson which they have not studied, and then ask questions and allow them to find the answers by reading the section silently.
	"What did Carl do? To whom did the sheep belong? With whom did Carl live? Describe his home. Describe the scenery around Carl's home. What did Carl love? Which did he love best? What did Carl do with the sheep in the morning? When did he bring them back? What did Carl do besides care for the sheep? What did his mother do? Why did Carl help his mother? Were he and his mother happy?"
2	2
a. Carl's work. b. Carl's home. c. Scenery around Carl's home.	Presentation: "How many things are told in our story? Let me write them on the board. Read the first paragraph silently. What is it about?"

d. The things Carl loved.

e. Carl's work as a shepherd.

f. The home work of Carl and his mother.

How shall we state that? Read the second paragraph silently. What is it about? How shall we state that? What is the third paragraph about? How shall we state it?" Each paragraph should be developed in the same way.

Second or Third Grade

I. *Subject*: Oral Reading.

II. *Topic*: "The Wonder Flower," Part I.

III. *Teacher's Motive*: (1) To help the child interpret the story and understand its sentiment. (2) To help him express this thought in a pleasing manner.

IV. *Child's Motive*: (1) To read the section illustrated by the teacher. (2) To read in such a way that his audience will form vivid mental pictures.

V. *Subject-matter and Procedure*:

SUBJECT-MATTER	PROCEDURE
1 The recall of the assignment made the day before. (See Chapter VIII, pages 102 to 105.)	1 Preparation : "What is our lesson about? Does it say anything about the 'Wonder Flower' in today's lesson? What does it tell? What did I say I was going to do today? Did you practice reading so that you could read the paragraphs I illustrate?"
2 Paragraph 1.	2 Presentation : "Let me draw a picture and then see if you can find the paragraph it illustrates." The teacher draws a picture of a boy and some sheep. "Who thinks he knows

which paragraph this illustrates? John, you may read your selection in such a way that we may close our eyes and imagine we see the boy and the sheep. That was good. Do you agree with his selection? Mary, let us see what kind of picture you can make us see."

Paragraph 5.

"Find this paragraph." She draws a picture of a river, a sheep, a boy, and a house under the trees. "Who is ready to read the paragraph? Do you agree with the selection? Try to make us see the picture, Sam. What does the first sentence tell? What picture does that make you see? Who will read just that sentence, and make us see the picture?" The teacher should allow a number of children to try their skill in making others see the picture.

Each sentence may be handled in a similar way.

Paragraph 2

"Let us see who can find this paragraph first." She draws a picture of a tiny house, a garden, and a white goat. The reading of this paragraph is treated in the same way as that of the first one.

Paragraph 4.

She then draws a picture of a river, trees, mountains, birds, butterflies, and flowers. The paragraph is found and read, and she then helps the children to develop an appreciation of its beauty by such questions as follow: "What does *shining river* mean? Why do you suppose Carl loved the shining river? Would you like to see it? What does he mean by *gay*

butterflies? Do you ever listen to the singing birds and watch the gay butterflies? How do you feel when you hear the birds singing and see the pretty butterflies flitting about? What did Carl love best? Why do you suppose he loved the flowers best?"

The other paragraphs in the lesson should be illustrated and developed in a similar way. This is possible in all except the last one. This may be developed by the teacher in the following manner: "Who can find and read the paragraph that tells about Carl's love for his mother, and of their happiness?"

Practically all the suggestions for the motivation of the oral reading may be applied to this lesson. Each motive would call for a procedure in keeping with that motive.

The questions used in the type lessons on the reading of the story of "The Little Red Hen and the Grain of Wheat," and in the original story of the "Excursion" (Chapter V, pages 65 to 67), are suggestive of the questions which are asked in order to help the child develop the meaning of the sentence. It is a pernicious habit for the teacher to conduct a reading lesson in such a way that the child gains nothing from his oral reading. When her sole effort consists in saying "Read the next sentence, John," she is wasting a valuable opportunity, and the child is wasting time. By her questions and suggestions she should lead him to see that every sentence or paragraph embodies a thought which he is to interpret through his oral reading.

REFERENCES

BRIGGS AND COFFMAN, Reading in the Public Schools
JENKINS, Reading in the Primary Grades
KLAPPER, Teaching Children to Read
EARHART, Types in Teaching
STRAYER, A Brief Course in the Teaching Process
STRAYER AND NORSWORTHY, How to Teach

CHAPTER X

LANGUAGE

AIM

All thought has a tendency to find outward expression. It may be through vocal language, written language, action, fine arts, industrial arts, or household arts.

If nature has endowed the child with the necessary tendencies for thought and action, the development and ultimate use of these will be a matter of training; hence, the stimulation of thought and its direction are important features in the educational process.

In the language work the teacher is primarily interested in the expression of thought through vocal and written speech, hence the other forms of expression are only briefly discussed in this chapter.

As there can be no expression without impression, the problem of the teacher is of a two-fold nature: (1) the arousing and stimulating of thought, and (2) the training of the child to correct, clear, fluent, and forceful expression of this thought.

SUBJECT-MATTER

To express thought fluently, clearly, and forcefully the child must have a large stock of available words and considerable training in the use of these words.

Thought may be aroused and stimulated and language power developed through use of literature, conversations

about child's daily life, nature study, social life, and games.

In planning for the work to be accomplished in the language course it is essential that each teacher plan her own course of study, as this must be based on the needs of the particular class in question. She should mix and mingle freely with the children in their school life and in their home life. She should constantly endeavor to lead them to free and spontaneous expression in all their work. Only in this way can she really discover the actual language needs of the class. She should keep a list of the errors heard. She should not attempt to correct all these errors at once but the most glaring and grating ones should be selected for the first work.

Some of the incorrect language expressions which are common errors with the child will be found in the following list: "I have took" for "I have taken"; "I seen" for "I have seen"; "I have saw" for "I saw"; "I taken" for "I took"; "set" for "sit"; "git" for "get"; "aint" for "am not"; "comin" for "coming"; "come" for "came"; "run" for "ran"; "have got" for "have."

Course of Study

The language course of study will contain suggestions for the work in literature, since this is an essential part of the language work.

First Grade. It will include stories reproduced and dramatized; poems memorized; thought expressed through handwork; conversational exercises about nature observations, picture study, and daily exercises; expression games to establish correct habits of expression; use of the period, question mark, capital letter in a proper name and at the beginning of a sentence; very simple letter writing.

Second Grade. Stories reproduced and dramatized; poems memorized; thought expressed through handwork; conversational exercises as in the first grade; expression games to correct errors in speech; letter writing; very simple class compositions and stories based on nature study, literature, picture study, and history or social life; abbreviations, as Mr., Mrs., St., and other forms used in this grade; use of capitals in days of the week, in months, and in the first word of each line of poetry; the use of quotation marks and of the comma after a word of address.

Third Grade. Stories reproduced and dramatized; poems memorized and recited; thought expressed through handwork; conversational exercises based on nature study, picture study, literature, and history or social life; composition or story work based on conversational exercise; letter writing; expression games to establish correct habits of speech; punctuation marks needed in written work; abbreviations for such terms as the child uses in his written work.

METHOD

The use of words and expressions is a most important part of language power, since it is an almost infallible key to one's cultural attainment. The most inspiring thought loses force if it is expressed in incorrect language.

The old method of teaching correct forms of expression was to have the rules of grammar memorized. Very little attention was given to training the child to use correct forms. The success of this method is measured by its result. We have only to listen to the speech of many who were trained in English by the use of the rule alone

to realize that there is something woefully lacking. Many of these persons can quote glibly every rule in the grammar and then unconsciously break each of these rules in ordinary conversation.

The way a person expresses thought is a matter of habit—a habit which is usually formed long before he is able to understand the meaning of a rule. The period of easiest habit formation is in early childhood, and hence it is very essential that the child form correct language habits. He should say things in a certain way not because of a rule but because he has formed the habit of saying it in that right way. It is with great difficulty that a habit is broken, and the older the habit, the harder it is to break. Consequently, this phase of the language work should receive especial attention in the primary grades.

That language habits may be successfully established, it is necessary that the teacher have a thorough knowledge of language forms and that she use these forms correctly in her own speech since the child is a great imitator. The child should first be given to understand that there is a right and a wrong way to say things. This should be followed by the awakening of the desire to use the correct form, for if he is consciously trying to use the correct form, there is great gain inasmuch as he will form the habit of watching his own speech. The teacher should praise him whenever he uses the correct form, as this will help to make the desire to use it more prominent in his mind. She should use her own judgment in correcting errors in the child's speech. Correction should never be given in a way that will tend to embarrass him or that will attract the attention of the other children. When he makes a mistake, if the teacher will quietly repeat the correct form he will usually cor-

rect the mistake and go on without any embarrassment and the attention of the other children will not be attracted. If this cannot be done, it will probably be better to make a note of the error and then plan some game or exercise in which there will be a frequent repetition of the correct form.

The aim in all language work should be to direct the attention toward the correct form, rather than to the incorrect form. For this reason, the practice of class criticism in primary grades is questionable. A habit of expression is formed through frequent repetition of the expression. Is it not then a questionable procedure to train the child to give attention to the incorrect form? Would it not be more effective to train him to note the correct expression?

The uses of literature in teaching the child to use correct forms of speech will be fully discussed in the succeeding chapter.

Games. In establishing a correct habit of speech the teacher should not be satisfied with calling the child's attention to mistakes, but she should plan for a systematic repetition of the correct form.

A very effective device to use is found in the expression games. In these games there should be a frequent and interesting repetition of the correct form. The exercises or games should be varied from day to day and may occupy only a five-minute period.

Many suggestions for games may be found in educational journals and in books of games. The ingenious teacher can adapt many of the well known children's games to suit her needs.

Following are suggestions for expression games and exercises:

1. A Penny, a Penny. Aim, to establish the habit of saying "I haven't any." This is an adaptation of the old game of "Thimble." Two children come forward while the others remain in their seats. One child is given a penny. He goes from child to child, pretending to give the penny to each one. The second child watches to see which one receives the penny. When the first child has been to each one, he takes his seat, and the second child tries to guess who has the penny. He calls a child's name and says, "A penny, a penny." This child answers, "I haven't any," or "I have one," as the case may be. When the penny is located another guesser is selected, and the child having the penny gives it to some one else.

2. I Saw. To establish the habit of saying "I saw." A number of objects are placed on the table. The children form a line and march around the table. The aim is to discover who can see the greatest number of objects. After the class is reseated, each child in turn says, "I saw _____," telling what he saw.

3. I Have Seen. To establish the habit of saying "I have seen." The teacher says, "I wonder how many different kinds of birds you have seen?" Each child answers by saying, "I have seen a robin." The game is continued until all have told the different kinds of birds they have seen. This exercise may be varied by letting each child tell about different animals, flowers, trees, or vegetables.

4. The King's Gold. Aim, to establish the habit of saying, "It was not I," and "It was he or she." One child goes from the room. The other children hide their eyes. The teacher goes through the aisles and touches one child. She then gives the signal for the children to sit up. The absent child is recalled. He calls a child's

name and says, "Was it you, who stole the king's gold?" This child touches another child and answers, "It was not I who stole the king's gold, it was he (or she)." This child rises and says, "It was not I who stole the king's gold, it was he (or she)." The game continues until the one touched by the teacher is discovered. This child goes from the room and the game is played as before.

Other suggestions for games may be found in either of the following books:

Aldine, Language Games, Newson & Co., New York.

Leiper, Language in the Elementary Grades, Ginn & Co., Chicago.

Conversational Exercises. Another source for developing thought and the power to communicate thought is through conversation. Topics in which the child is interested should be selected; for instance, games, home and daily life, pets, nature study, pictures, or the reading lesson. By questions and suggestions the child is led to talk about these things. This should give an opportunity to develop correct and fluent expression, and the ability to think and talk while standing.

The study of pictures representing child life will form an excellent basis for conversational exercises, and for original stories. The picture should be chosen with care and should be a copy of a painting by a good artist.

The teacher should select those that tell a story, and the child should be trained to see the story in the picture. Originality in composing stories should be encouraged.

Suitable pictures may be purchased from the Perry Pictures Co., Malden, Mass.

Other Forms of Expression. Any form by which

thought is communicated has a place in the study of language. The child should be encouraged to express the thoughts acquired through literature, nature study, or social life by some form of handwork. Among the best forms of handwork are the sand-table, clay modeling, free-hand paper-cutting, drawing, and paper-folding. This work should be developed as the outward expression of the inner thought. These forms of expression will be more fully treated in Chapter XX.

WRITTEN LANGUAGE

Problem. In the primary grades, the larger part of the time should be given to oral language. The first and greatest problem is to train the child to express thought in correct, clear, fluent, and forceful oral English. If this is successfully accomplished the problem of written English will resolve itself into sentence structure, the proper use of capital letters, punctuation marks, proper arrangement on the page, and correct spelling. A common mistake of primary teachers has been the neglecting of the oral language and the over-emphasizing of the written. They have worked on the supposition that correct and fluent written expression results in correct and fluent oral expression. This has not proved the case, as a person can often produce a beautifully written composition or letter, and at the same time make many errors in his oral speech. Then, if a child has to contend with the expression side of his written work, his task is much greater and the time required for its successful accomplishment will be much longer.

Subject-Matter. Very little written language should be attempted in the first grade inasmuch as the need

for oral expression far outranks the need for written expression. However, a small amount of letter writing may be given. This letter writing may take the form of a simple invitation, or the body of the letter may consist of a copied rhyme or of a selection from the reading lesson.

The written work of the second and third grades will consist of the copying of simple rhymes, poems, sentences, compositions, written reproduction of stories, and original stories. Much of the time should be given to letter writing, inasmuch as the majority of people write nothing except letters. If spelling is taught in the modern way it will include the writing, from dictation, of sentences and paragraphs from stories and of stanzas from poems. This is an added opportunity for written language work.

Method. It is a simple task to teach the little child correct written form. The endless opportunity for black-board work brings in the use of capitals and punctuation marks. In this way he may be made sensitive to form. The best time to teach the details of written form is when the child contributes the original stories which have been developed in the conversational exercises. On these occasions he gives the natural phrasing which makes punctuation a necessity. He asks the question or makes the statement and thus he sees the need of the question mark and the period.

If the child is to use correct written English, no incorrect form should ever be placed before him either in the teacher's work or in any other which is presented to him. Though he does not understand the proper use of capitals, punctuation marks, or the proper arrangement of form, all work placed before him should be

absolutely correct as to these points, in order to avoid the possibility of an erroneous impression. In all his own written work the teacher should require accuracy as to arrangement, capitals, and punctuation. The child should never be asked to write anything unless he has knowledge enough to do it correctly, else the result will be the formation of an incorrect habit.

No error in the child's written work should ever be allowed to pass unnoticed. He should be required to correct his own errors, since this will serve to impress the correct form as well as to make him more careful.

Rules. The rules for the heading, the margin, the indentation of the paragraph, the use of the capital letters, the proper punctuation, and other points of arrangement may be effectively taught by the inductive method. It is worth considerably more to the child to examine his book with the attention directed toward the point in question and discover the way to do the thing, than to be told how to do it. If the rule is worked out in this way it will mean much more to him, since the knowledge of it is the result of his own effort. He must have thought about it before he can form the rule. If he should forget this rule, he should go back to the source to refresh his memory.

THE LESSON PLAN

The language lessons are mainly of two types, the inductive lesson and the drill lesson. The inductive lesson, which may also be a study lesson, is the lesson where new rules or definitions are worked out. It consists of (1) a problem, (2) a study of material which will solve the problem, and (3) the summary or solution

of the problem. However the majority of the language lessons are drill lessons in which the aim is to establish a certain habit of response. These lessons should conform to the principles governing the drill lesson; namely, (1) motive, (2) clear idea of the desired response, (3) attentive repetition, (4) no exception, (5) review, and (6) application.

1. Motive. As previously stated, the mind accomplishes a task more quickly and with greater ease if it is held to the task by a conscious and definite aim or purpose.

The observance of this law is especially valuable in the language lesson, which is more or less a mechanical process.

First, the teacher must have a general aim for the work as a whole, with specific aims for each separate lesson or lesson unit. The general aim has already been stated as (a) the arousing and stimulating of thought, and (b) the training the child to express this thought correctly, clearly, fluently, and forcefully. The specific aims for the individual lesson should be some one or more features of this general aim.

The child's motive will vary with the subject matter. In the expression game it will be to play the game correctly or it may be to see how many opportunities he can find to use a certain word or expression. Again he may be interested in writing an invitation to his mother, or he may want to discover the story of a picture and then tell an original story about it. Suffice it to say that whatever the problem or motive, it should appeal to him as something worth doing.

2. Clear Idea of Response. Before the important step of repetition begins the child should have a clear

idea of the desired response in order to guard against the repetition of an error. If it is an expression game, he should hear clearly and understand the expression which is the key to the game. If it is a word which he is to add to his vocabulary, he should know both the correct pronunciation and the correct meaning of the word before the repetition of its use begins. If it is a letter, he should have a clear and a definite idea of the points involved before beginning the repetition.

3. Attentive Repetition. Before a certain habit of response is permanently established there must be many repetitions. The number of repetitions necessary is materially reduced if concentrated attention accompanies each repetition. Therefore, the teacher should plan for the conscious repetition of the response which she is endeavoring to establish. The child may play a variety of games which involve a certain expression; the expression is brought out in a story or in a poem; or a story which involves the expression is dramatized.

The different devices for bringing in the repetition of the expression utilize the law of association, which is one of the best means of establishing a desired response.

4. No Exceptions. The repetitions should be so planned that no error will be made, otherwise the task of establishing the habit will be very much retarded. Not only should the teacher try to avoid possibilities of error in the language period but she should be constantly on the alert whenever the child has occasion to talk or to write.

5. Reviews. The teacher should recognize the importance of the principle of review in establishing language habits, and plan for frequent and systematic review of each point covered. After the child has gained

some skill in playing expression games, more elaborate games, in which there is a review of two or more expressions, may be utilized. Stories or poems may be selected with a view to reviewing language expressions.

6. Application. The teacher should make many opportunities in the various schoolroom activities for the application of the habits established in the language course. She should praise all attempts to use these habits in both home and school activities.

(See References, page 147.)

CHAPTER XI

LANGUAGE—(Continued)

ILLUSTRATIVE LESSONS

First, second, or third grades

I. *Subject:* Language game.

II. *Topic:* The expression, "I saw."

III. *Teacher's Motive:* (1) To bring the expression "I saw" to the child's conscious field. (2) To provide an interesting means for the repetition of the expression.

IV. *Child's Motive:* To play the game without making a mistake.

V. *Subject-matter and Procedure:*

SUBJECT-MATTER

2

"I saw"

PROCEDURE

2

Presentation: "Boy and girls, I know a game which I am sure you will enjoy playing. It is the game 'I saw.' Some one begins by telling that he saw an object of a certain color. For example, Roy says, 'I saw a red bird.' Then all the others must follow suit by telling of something red they have seen. For example, John follows Roy by saying, 'I saw a red house.' As we play each one must be sure to say 'I saw' or he will have to pay a forfeit.

"After each one has followed Roy's suit, then John may start the next round by changing the color; for example, he says, 'I saw a white cow,' then each of the others must follow suit."

Play the game for several minutes.

3

I saw

Summary: "What was the expression we used each time?"

4

Explanation of game
with emphasis on *I saw*.

Application: "When you go home tell mother all about the game. See if you can tell her all the different things we saw. How would it do to tell her like this, John said, 'I saw a white cow?'"

First, second, or third grades

I. *Subject:* Conversational Exercise.

II. *Topic:* Picture, "Can't You Talk?"

III. *Teacher's Motive:* (1) To stimulate the child's thought. (2) To develop his power of expression.

IV. *Child's Motive:* (1) To learn the story of the picture. (2) To tell the picture story.

V. *Subject-matter and Procedure:*

SUBJECT-MATTER

1

Experience with a baby
and a dog.

PROCEDURE

1

Preparation: "Do you have a baby in your home? How old is it? Do you have a dog? Is the baby afraid of it. Does he ever play with the dog?"



2

Picture: "Can't You Talk?"

2

Presentation: "Look at this picture and tell me what you see." The teacher allows the children a few minutes in which to examine the picture. "Let us see if we can find out the story of this picture. What kind of dog do you think this is? What do you suppose his name is? Do you think he likes the baby? Why do you think so? Do you think the baby is afraid of the dog? Why do you not think so? What do you think the baby would like to say to the dog? What do you think the dog would like to say?

"What is the cat doing? What do you suppose he would like to say?

"What time of day do you think it is? Why? What time of year do you think it is? Why?

"What do you think this picture should be called?" After a discussion of different names suggested by the children, the teacher may tell the artist's name for it.

3

An imaginary story of the picture.

3

Summary: "Do you think you can tell the story of the picture? I want some one to imagine that this is your baby brother or sister and your dog and cat. Then tell us the story about the baby trying to talk to the dog." The teacher should allow as many children as will volunteer to tell a story. She should

praise all effort, also any original suggestion. In the second and third grades the story may be written after much oral discussion. It should be made a class exercise until the teacher is sure that the children will not make errors in form or spelling.

4

4

The story to be told at home. **Application:** "What will you tell your mother about the picture?"

Second or third grade. (For a simple note of invitation suitable for a first grade see Chapter XVI, pages 219-221.)

I. *Topic: A Written Invitation.*

II. *Teacher's Motive:* (1) To train the child in the written mechanics of a letter. (2) To train him to depend upon himself.

III. *Child's Motive:* (1) To write an invitation to his mother to visit the school. (2) To discover the proper way of writing a letter.

IV. *Outline*

1. Heading

a. address

(1) location

(2) capitals and punctuation

b. date

(1) location

(2) capitals and punctuation

2. Salutation

a. wording

b. location

c. capitals and punctuation

3. Body
 - a. arrangement
 - b. margin
4. Closing
 - a. wording
 - b. location
 - c. capitals and punctuation
5. Address
 - a. location
 - b. arrangement
 - c. punctuation

V. *Subject-matter and Procedure:*

SUBJECT-MATTER	PROCEDURE
1	1
Discussion of an invitation to the mother	<p>Preparation: "How many of you would like to invite your mothers to come to visit us next Friday afternoon? How can we get the invitation to her? Don't you think it would be nice to write her a letter of invitation?"</p> <p>"Did you ever receive a letter? What is the first thing that is written in a letter?"</p>
2	2
A. The heading: (1) Observation school	<p>Presentation: "Examine these letters and see what is the first thing." The teacher should have some personal letters from friends in near-by towns, as these names will be familiar to the children. This will aid them in arriving at the conclusion that the person writing the</p>

letter places his address first. "When you have found the first word in a letter, I will help you to pronounce it if you do not know what it is." Each child is permitted to examine a number of letters. "What is the first thing written each time? Why do you suppose each person wrote the name of a place the first thing? Then what is the first thing we must write?"

(a) Location

"On what part of the page should we write the name of our school?" She should have the children discover the answer through the examination of several letters. "I will mark off a page on the board. Come and show me exactly where to write the name."

(b) Capitalization and punctuation of the address

"Examine the letters and tell me what kind of letter to use in writing the name." After the letters are examined she has the children make a statement of the kind of letter used. "Look in the paper when you go home and see if all the names of places begin with capitals. What punctuation marks are used?" The teacher proceeds as before.

Summary of first point covered:

"Show me where you will write the name of the school in your letter. What kind of letter will you use at the beginning of the words? What punctuation marks?"

- (2) The date
 - (a) location
 - (b) capitalization and punctuation

The teacher marks off a space on the board to represent a letter and places the name of the school in the proper place and the children copy on paper. She then develops the writing of the date in the same way. The teacher has calendars examined, in addition to the letters, to discover the rule for writing the name of the month with a capital. If sufficient evidence is found, the children are allowed to form the rule for writing the name of the month. The date is then added to the letter.

B. Salutation:

Dear Mother

- (1) wording
- (2) location
- (3) capitals and punctuation.

"Examine the letters and see what comes next." The teacher should use personal letters in which the name and address of the person to whom the letter is written are omitted.

"How shall we say it in our letter?"

She has the children discover the position, the use of the capitals, and the proper punctuation. The teacher adds the salutation to the letter on the board and the children copy it.

C. Body:

- (1) arrangement
- (2) margin

1: "Now what were we going to invite mother to do? How shall we say it?" She should have the children discover the place to begin the body of the letter.

"Where must we begin the second line?" She has the children examine the letters. "Do you know what that space is called? Look in your book

and see if a margin is left on each page. Why do you suppose this margin is left?" The teacher writes the entire sentence and the children copy.

We will sing for you.
We will recite poems
and tell stories.
We will dramatize
some of our stories.

"What else shall we say to mother? Don't you think she will be interested in knowing what we are going to do? How shall we say this?" The teacher writes and the children copy. "What else shall we do?" Each sentence should be developed in a similar way.

D. Closing:
"Your son, John."
(1) wording
(2) location
(3) capitals and punctuation.

"How shall we close our letter? Examine the letters and see how they are closed." The teacher continues until each point is developed inductively.

3

Summary: As previously stated, this letter would be the work of several days. Before each period the part of letter already developed should be placed on the board. In beginning each succeeding lesson the teacher should have a brief review on the points previously developed.

E. The address:
(1) location
(2) arrangement
(3) punctuation

The correct way of addressing a letter should be developed inductively, also practically every other point in written composition.

4

Writing additional
letters.

4

Application: The writing of other letters from time to time.

Second or third grade

I. *Topic*: A Written Story or Composition.

II. *Teacher's Motive*: (1) To develop the child's initiative and to train him in proper expression and organization. (2) To train him in the proper written mechanics of a composition.

III. *Child's Motive*: (1) To write a story to send to his grandmother. (2) To arrange properly the outline of the story. (3) To express himself in the best way. (4) To discover the proper way to arrange and write the story.

IV. *Outline***1. Title**

- a. wording
- b. location
- c. capitals and punctuation

2. Outline of theme**3. Body**

- a. description
 - (1) wording
 - (2) arrangement
- b. food
- c. home
- d. protection from enemies

V. *Subject-matter and Procedure*:

This story is based on a previous nature study lesson on the rabbit; all the facts were fully developed.

SUBJECT-MATTER

2

PROCEDURE

1 and 2

1. Title: "What have we been studying in our nature study lesson? Wouldn't

The Story of the Rabbit.

- a. wording
- b. location
- c. capitals and punctuation.

your grandmother be pleased if you were to write a story of the rabbit and send it to her? What is the first thing we find in a story? Look in your books and see." The teacher has several stories examined until the children are convinced that the name of the story should be given first. "What shall we name our story? Where shall we write it?" The proper position, capitals, and punctuation should be developed inductively. The teacher writes on the board and the children on paper.

Summary: "What is the first thing we write in a story?" Each point covered is reviewed.

2. Outline:

- a. description
- b. food
- c. home
- d. protection from enemies

"What shall we tell about the rabbit? I will write on the board the things you suggest. What shall we tell first? What next?" The outline is rearranged. The teacher should train the child to organize this outline properly by suggestions and by well-directed questions. She should not be arbitrary even if the organization is not as logical as desired, since the aim is to develop and train the child's initiative and power of organization.

3. Body:

- a. description
 - (1) wording
 - (2) arrangement

"How shall we describe the rabbit? How shall we say that?" She continues until all the sentences are placed on the board. These should not be placed on the part of the board where the regular composition is to be written.

"Let us read our description. What

sentence should come first?" The sentences are rearranged as in the outline. The children are allowed to discover a rule for the margin and one for the indentation of the paragraph by examining their reading books.

After the first paragraph is placed on the board the children copy it. Each paragraph is developed in a similar way.

All letter writing and written composition work should be closely supervised until the teacher is reasonably sure that the child will not make mistakes in his work.

If original work is given too early it tends to establish incorrect habits of form and of spelling.

3

Summing up all points covered.

3

Summary: Throughout the lesson the teacher should constantly recall all points covered.

4

The writing of additional stories.

4

Application: The writing of other stories from time to time.

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CHAPTER XII

LITERATURE

AIM

If the child is to gain in language power, he must have a conscious ideal or standard by which to measure his progress. One of the best sources for these ideals is found in literature. The English is pure, simple, and elevating, and its proper use will enrich the child's vocabulary, add to his power of expression, and help him form correct habits of speech.

In addition to its value as a source of language ideals, a genuine love and an appreciation of good literature will enrich life by broadening the mind and the character through contact with the noble men and women portrayed. It will develop and broaden the child's sympathies for his fellow men, fill his mind with uplifting thoughts, develop his imagination, and furnish ideals of conduct. Through its use he should learn to love and appreciate nature as never before.

It is said that if a child does not learn to love good literature before the age of ten, the chances are that he will never acquire this taste. If this is true, it is the duty of the teacher of the little child, to bring him into daily contact with as much appropriate literature as possible, inasmuch as love of good literature is a matter of training and not an inborn trait.

The primary purpose of literature is to give joy. This alone is a justification for its frequent use in the schoolroom, since the ideal schoolroom is one in which both teacher and pupil find much joy. The use of the story will also help to bring about a closer relation between the teacher and the pupil, as the child is instinctively drawn closer to the story teller. Not only does the story or poem give joy but it affords opportunity for the enriching and the enlarging of the child's mental and moral life. He can find no higher source for moral ideals than in the good old fairy tale or the historical tale.

Two other important functions of literature are the development of the child's imagination and the mental training which the study of literature affords. Even the simplest story affords such training, as its incidents are logical in arrangement, each growing out of the preceding one and necessitating the following one. These stories are found to contain all the elements of good literature—they are simple in plot, have a predominating action, and every incident leads toward the climax.

SUBJECT-MATTER

In the rhymes of "Mother Goose" will be found a rich storehouse of material for the mental training which literature should offer. These rhymes meet every requirement for good literature and afford a broad field for the development of the child's imagination. The rhythm is irresistible, the incidents are intensely interesting, the consequences are just, and the moral tone is of a high type. The child who has not known "Mother Goose" has been deprived of a source of mental development which cannot be supplied in any other way. Not only is

this true, but a knowledge of Mother Goose is essential to a complete understanding of adult literature where frequent allusions will be found to these characters.

Good English is born of familiarity, therefore, it is essential that the child hear as much good English as possible. Literature is one of the most essential factors in this program since it affords endless opportunity for bringing him into daily and almost hourly contact with those who have something to say and who say it in the purest and simplest English.

In choosing literature for the development of language power, the teacher must keep in mind the twofold purpose; namely, (1) to arouse and stimulate thought, and (2) to establish habits of correctness, forcefulness, and fluency in the expression of thought. Any selection which does not measure up to this standard should be eliminated from the language course of study.

I. THE STORY

There is a vast amount of material from which to choose the story, and the teacher is often puzzled to know just what selection to use. Through a close study of those which especially appeal to the child, it has been found that the ones which he likes best (1) are full of action; (2) contain simple elements used in a realistic way; and (3) contain a certain amount of repetition. If the teacher will apply this three-fold test, she will seldom make a mistake in her choice of stories.

Among the classes of stories which the child likes will be found the fairy story, the myth, the legend, the historical story, the nature story, the Bible story, and the nonsense story.

1. *The Fairy Story.* The fairy story has a special charm for a young child, and it should be given him as his natural right. It stirs and develops his imagination, inspires him to right action, and develops his literary taste. Familiarity with the fairy story is necessary to a full appreciation of the frequent allusions in adult literature.

2. *The Nature Story.* If the nature story is carefully selected, many truths may be taught in an interesting form. It will develop a closer sympathy with the animal kingdom and a deeper appreciation of the beauties and wonders of nature. Through the nature story the child may be taught that behind nature and in nature is the hand of God.

3. *The Historical Story.* If the historical story is wisely selected, much interesting history will be acquired, the pride and love for one's country awakened, and a broader sympathy and love for humanity developed. The stories of the love, devotion, and struggles of the early pioneers should awaken a desire to emulate their example.

4. *The Biblical Story.* In the Bible will be found another source of literature that may be used in arousing thought and establishing language ideals. It is unsurpassed in purity of style and in loftiness of content. Through the Bible story, the child may be taught the all-powerful influence of God in the development of the human race.

As in the fairy story, a knowledge of the Bible story is necessary to a full appreciation of adult literature.

5. *The Nonsensical Story.* The value of the funny story lies in its humor and its power to awaken laughter. A hearty laugh will do much to clear up the mental

atmosphere, and take away the tired, discouraged feeling which is too often a natural result of the schoolroom procedure. When the child seems tired and listless, the teacher should try the effect of a funny story, one which will give him the opportunity for hearty laughter.

The following list of stories meets all the requirements for those suitable for language work. Many equally appropriate may be found in the modern school readers, children's magazines, educational magazines, and in books of stories especially prepared for the teacher:

First Grade:

- Bellerophon and Pegasus
- Ulysses and the Bag of Wind
- The Three Bears
- The Three Pigs
- The Town Musicians
- The Elves and The Shoemaker
- The Ugly Duckling
- The Old Woman and the Pig
- The Little Red Hen and the Grain of Wheat
- The Little Fir Tree
- The Discontented Pine Tree
- The Boy and the Wolf
- The Lion and the Mouse
- Phaeton
- Another Little Red Hen Story
- How Brother Rabbit Fooled the Whale
and the Elephant
- Epaminondas
- Pig Brother
- Raggylug
- Sleeping Beauty

The Lost Sheep (Bible)
David and Goliath (Bible)
The Birth of Christ (Bible)
Saint Christopher
George Washington
Wonder Stories
Stories of Animals

Second Grade:

Clytie
Pandora
Prometheus
Persephone
Baucis and Philemon
Snow White
Hansel and Gretel
Beauty and the Beast
Cinderella
Moses (Bible)
Daniel (Bible)
Ruth (Bible)
Picciola
Robert E. Lee
Washington
Columbus

Third Grade:

Old Greek Stories
Robinson Crusoe
Stories of Great Musicians
Little Lame Prince
Child of Urbino and Randolph
The Wonderful Lamp

Dog of Flanders
Rip Van Winkle
The Cratchits' First Christmas Dinner
The Constant Tin Soldier
The Darning Needle
Tit for Tat
The Fir Tree
The Angel
The King of the Golden River
Books of Stones
The Children's Hour

Books: Bryant, How to Tell Stories, Stories to Tell to Children (Houghton, Mifflin Co., New York); Grimm's Fairy Tales (Macmillan, New York); *Bailey*, For the Children's Hour (Milton Bradley, Atlanta); *Cooke*, Nature Myths and Stories (A. Flanagan Co., Chicago).

II. POEMS

It is said that the child has an instinctive love for the rhythm of the poem, and that if the adult does not like poetry, it is because this instinct was not properly developed in childhood. If this is true, the teacher has committed a grievous wrong against the child if she does not make the reading and reciting of poetry a regular part of his school life. The most beautiful and inspiring thoughts in all classic literature are in the form of poetry. The person who does not read poetry loses much that would broaden and elevate life and help to lift him above the sordid and trivial. Many people have been saved from temptation and from the commonplace by having their minds stored with these gems of literature.

The retentive or permanent memory is at its best in

childhood, and a thing thoroughly memorized in this period is never forgotten. Advantage should be taken of this opportunity by filling the child's mind with the noblest and best which literature affords.

Aside from the moral and intellectual benefits of poetry, there is an excellent opportunity for developing language power. If the poetry is properly used it will arouse and stimulate the child's thought, increase his vocabulary, add to his phraseology, and help him in forming the correct habits of speech.

Great care should be exercised in the selection of the poem. It should be simple as to content, easily interpreted, made up of familiar elements, and should be unmistakable as to rhythm. The English should be pure and the style simple. If a poem is adapted to a certain season, it will add interest and meaning to teach it in the appropriate season.

There is an abundance of appropriate poetry for the child of every age. Much poetry that is appropriate to the grade and to the season will be found in the modern readers, children's magazines, educational journals, the Bible, and in books of poetry for children. The following list of poems is suggestive:

First Grade:

Time to Rise
The Wind
The Swing
Sing a 'Song of Seasons
Singing
The Cow
Duty of Children
Bed in Summer

I Love You, Mother
Christmas Song, *Fields*
The Seed, *Kate Brown*
The Wonderful Meadow (one stanza)
 Wordsworth
The Wind, *Rosetti*
I Love Little Pussy

Second Grade:

Autumn Leaves
October Gave a Party
The Little Kittens
The Sunbeam, *Paulson*
Come Little Leaves
The New Moon
Who Stole the Bird's Nest
October's Bright Blue Weather
The Squirrel's Arithmetic
Talking in Their Sleep
Wynken, Blynken, and Nod

Third Grade:

The Children's Hour
Christmas
The Four Winds
Wonderful World
Daisies
Violets
March
Jack in the Pulpit
Sir Robin
1 Cor. 13: 1-13
Nineteenth Psalm

Books: *McMurry & Cook*, Songs of the Tree-top and Meadow (Public-School Publishing Co., Bloomington, Ill.). *Lovejoy*, Nature in Verse (*Silver Burdette Co.*, New York). *Stevenson*, A Child's Garden of Verse (*A. Flanagan Co.*, Chicago). *Field*, Love Songs of Childhood (*Charles Scribner's Sons*, New York).

METHOD

Literature should be presented and developed in such a way as to arouse the child's appreciation and to stimulate his thought. The discussion of the selection should lead him first of all to form a clear and vivid mental picture of the scenes portrayed. This should be followed by questions which will lead him to analyze, compare, and offer opinions on the characters or the events. In other words, he should be made to think. Such questions as the following may be asked: "Why do you like this story or poem? Which character or part do you like best? Why? Do you think this a good title for the story or poem? What would you like to call it? Let us see how many parts there are to our story or poem."

If good English is the result of familiarity, the child should have every opportunity possible to hear and reproduce good English. One of the most effective ways to enrich his vocabulary, to help him in establishing correct habits of speech, and in developing a beautiful, forceful, and fluent power of expression is through the reproduction of stories and the reciting of poems.

He should be made conscious of the new word, the beautiful expression, or the correct expression which the teacher is seeking to add to his language power. He should be encouraged to use these in his daily speech. Much may be done by praising the child who makes this

effort. Many ludicrous mistakes will be made in these early attempts, but if the teacher perseveres, the child will gradually form the habit of expressing his thought in fluent and beautiful English.

The teacher's attitude toward literature is of great importance since it is not possible to teach literary appreciation if she does not appreciate. She should never attempt to teach a selection which she does not like. It is possible for the teacher to learn to appreciate a selection if she will make a close study of it, trying to discover the author's purpose and his attitude when he wrote it. She should study until she understands its style and the thoughts which it portrays, and until she has a vivid mental image of the situation depicted.

I. THE STORY

The story which is told is much more interesting and effective than the story which is read. The relation between the narrator and the audience is much closer, since she is able to look into the faces of her auditors and adapt the story to their changing moods. Then, if she has made the story her own, she can make it much more vivid and forceful by a freer use of eyes, voice, and bodily gestures than is possible to do when hampered by the words of a book. In other words, the telling is much more natural and spontaneous than the reading.

Story-telling is not always a gift, but it is an art which may be acquired through careful study and practice. The first step for the teacher in learning to tell a story is to read and study it until she feels the emotion of it and has a genuine appreciation of it. Second, she must know her story thoroughly. She should think of it and picture the events until it seems to have been a personal experience.

The student has only to recall her joy in listening to the story which begins, "When I was a little girl," to realize the force of a story that is a personal experience. It has a charm and fascination that no other tale has, which is due in part to the fact that it is imaged in the narrator's mind as an actual, vivid picture, and as she tells it she is again participating in the event which enables her to paint a realistic word-picture. If the teacher is to tell a story well, it must partake of the elements of a personal experience. However, the story should not be memorized, except where a certain phrasing is especially beautiful, or where it seems best to preserve a certain phraseology of conversation, as in the story of the "Three Bears." In general the language should be the teacher's own.

When telling a story the teacher should stand where she can look into the face of each child. This will allow her to adapt her tone and gesture to the changing expressions of the listeners.

The story should be told simply, directly, dramatically, joyfully, and enthusiastically. When the audience is made up of young children, it should be told slowly and impressively. The events should not be told hurriedly, but the child's imagination should be given opportunity to leap forward and supply what is about to happen. His mind does not go quickly from one thing to another, and if the story is told rapidly half the joy of listening is lost, for not only does he not get a clear picture of the event but his imagination is not given proper scope for activity.

When telling a story it should not be interrupted to correct a disorderly child. If he is not listening he should be made to listen by the force of the story. It should be made so dramatic and interesting that he will

listen in spite of himself. There should be an exception to this rule in the event that a child is making it impossible for others to listen. As a rule, an effective punishment will be to take from him the privilege of listening to the story.

A story should not be spoiled by over analysis, but only enough discussion to help the child see the beauty and to enter into the feeling of it. A personal application of the moral of a story should never be made since this will often spoil the enjoyment of it. A well directed question will help him unconsciously to take the lesson to himself. By questions and suggestions he should be trained to compare the characters in the stories and decide whether the events are justified or not. He should then be left to draw his own conclusions. It is good training to read a story to the child and then allow him to supply a title, giving reasons for his choice.

Reproduction. As a basis for the development of language power, not only should the child listen to stories but he should be trained to reproduce them. He should not be asked to reproduce a story until he is perfectly familiar with it, inasmuch as this is one of the essentials for good story-telling.

Unless the story is very short, several children may take part in the reproduction. For instance, "Mary may tell us about *The Home of the Three Bears*. Sam may tell us about *The Visit of Goldilocks*." This method of telling is a training in systematic thinking and organization.

The child should be allowed to tell the story in his own words provided he uses a correct expression. Any effort to use the beautiful phrases of the story should

be praised not only in the reproduction but in ordinary conversation.

There should be frequent reproduction of old stories. It is suggested that each child be allowed to have certain stories as his personal property, the one being selected which he can best reproduce.

Dramatization. Where a story is full of action the child will get considerable pleasure and profit through its dramatization. Not only will it make the story more real to him but it will develop his language power by the expression of his thought in action and word. It will help to form the correct habit of speech as he must use the correct phrasing in the conversational parts. For instance, "Who has been lying on my bed?"

Dramatization is a basis also for realistic reading. Through it the child enters into the feelings of the characters more freely than is possible in any ordinary reading recitation. Before the dramatization he must be perfectly familiar with the events in the story, as he cannot successfully reproduce that with which he is not familiar.

If properly conducted, dramatization develops the child's initiative and judgment, since he must improvise stage scenery out of the ordinary schoolroom equipment. Then he must help decide on the children best suited to the different parts, where each shall stand, and the other things that go to make up a play.

As the purpose of dramatization is the benefit to the child, and not to give a finished product, it should be conducted in such a way that all the children will have a part at some time and in some story. As in the reproduction, old stories should be dramatized often and each child allowed to claim certain parts as his own.

Developing a Story. Another excellent plan for the use of the story to stimulate and develop thought is given in "The Question as a Factor in Teaching" by Hall. A story which is interesting, natural, reasonable, and logical is selected. The teacher begins the story and then pauses at a certain point and by thought-compelling questions stimulates the child's mind to activity by allowing him to give his ideas as to what happens next.

II. POEMS

It is not enough to read and recite poems to the child, but if he is to reap the greatest benefit many of the poems must be thoroughly discussed and then committed to memory. One or two poems should be memorized each month, with frequent review of those already memorized.

Psychology teaches that the ability to recall depends, primarily, upon three factors, (1) native power of retention, (2) the number of associations, and (3) the systematic organization of these associations. The first factor is one over which the teacher has no control, consequently it will be eliminated from this discussion. Nevertheless, it is a factor which she must take into consideration in dealing with individual cases.

Memory work is based upon a clear understanding of the thing to be memorized, followed by a systematic association of ideas gained through careful thinking. This clear understanding should come through hearing the poem read a number of times by the teacher, the attention being carefully directed toward some special point before each reading. The poem is then analyzed into its main thought groups without reference to lines,

or stanzas, and these are discussed as to their meaning and their relation one to the other. The main thought of the poem is then stated, if possible, in the words of the writer. This may be followed by a further study of the thought groups ending in a statement of these thoughts in the words of the writer. The relation of these minor thoughts to each other and to the whole thought should be constantly brought out.

If memorizing were carried out in this way it would cease to be drudgery, since the poem is usually memorized through this careful association of ideas.

Experiment has also revealed that the "whole method" of memorizing is by far the most economical. With the small child, it would seem that the combination of the whole and the part method would prove the most satisfactory.

Library. When the child has been taught to love good literature, the teacher's task is only partly finished. She should encourage him to read, and to read only the best. If he is to have access to this type of reading, it will often be necessary to have a well-selected library in the school. Too often the home from which the child comes is barren of any reading matter. When the reading habit has been established provision should be made by which the child may secure proper reading matter.

Original Work. When the teacher has successfully used literature in the development of the language power, she may, by skillful handling, train the child to write original poems and stories. This should first take the form of a class exercise, and later the pupils should work individually.

CHAPTER XIII

LITERATURE (Continued)

LESSON PLANS

The recitation in literature usually begins with the appreciation lesson, develops into the study lesson, then into the habit forming or drill lesson, and later into the review lesson.

The appreciation lesson really forms one step in drill lesson, that is, the giving of a clear understanding of the response, and will not be discussed as a separate type. The study and the drill lesson will consist of (1) the motive, (2) a clear idea of the desired response, (3) attentive repetition, (4) no exception, (5) reviews, and (6) application.

1. **Teacher's Motive.** The teacher's general motive in the teaching of literature is to arouse and stimulate thought, to develop an efficient language power, and to establish the habit of reading the best literature. The subject-matter for any lesson should be carefully selected and closely studied by the teacher with this general motive in mind. After this study she should carefully scrutinize it with the following questions in mind:

"Why am I giving this special subject-matter? Is it to arouse and stimulate thought; develop the power for clear, systematic thinking; to train in the ability to think and to talk while standing; to develop literary appreciation; to establish correct habits of expression; or to

train in the use of clear, fluent, and forceful English? Just what do I expect the child to gain through the use of this subject-matter?" More than one of these aims may enter into any lesson, but the teacher should have a clear-cut conception of what she expects the child to gain before beginning to plan the class procedure.

It is through the class procedure that the child's interest is secured, that he is made conscious of a motive, and that the teacher accomplishes her aim. This part of the plan will require very careful preparation. She must consider how she is to interest the child, how to lead him to want to accomplish the task in hand, what question she shall ask, what suggestions she shall make, how she shall help the memory or habit-forming process by as many associations as possible, and how she shall hold his attention and interest while the necessary repetition is going on.

2. Child's Motive. If the interest and attention of the child are to be of the best type, he must have a motive for doing the work. In other words, he must enjoy it, see the use of it, or feel that he is getting something out of it. If it is a poem which he is to memorize he should feel that he is learning it to recite at some definite time; or if it is a story he should learn to reproduce it for some special occasion.

3. A Clear Idea of the Response. This clear idea is gained through the reading of the poem or story by the teacher and through questions.

4. Attentive Repetition. The second step, or acquiring the clear idea of the response, offers opportunity for attentive repetition. If this is not sufficient the teacher should use devices and variation in the necessary repetition to insure the full attention.

5. **No Exception.** If the child is to form the habit of repeating the words of the poem correctly or of using correct expressions in the reproduction of a story, each repetition should be exact. The teacher should so plan that no error is likely to occur.

6. **Review.** If a poem or story is to become a permanent part of the child's mental equipment, the teacher should at first review it frequently, then gradually lengthen the time which elapses between the reviews.

7. **Application.** In so far as possible, the child should be given opportunity to make use of the stories and poems acquired through the language work. He may go to another room and recite the poem or tell the story, or the parents and friends may be invited to school and the child allowed to recite a poem or tell a story. He should be encouraged to tell the story to his brothers, sisters, father, mother, and other relatives and friends. After all, it is not so much a question of how much the child learns as what use he makes of what he has learned.

ILLUSTRATIVE LESSONS

These lessons are planned as units and in some cases no indication is made as to where the lessons will divide, inasmuch as this is a matter which should be governed by the amount of time given to a lesson period and to the ability of the class. The connection links between the lessons should be supplied by a brief review of the previous day's work.

1. *Topic:* Story of "The Three Bears." Primarily a first-grade story. However, the same general plan may be followed in a second or third grade.

II. *Teacher's Motive:* (1) To create a love for good

literature. (2) To develop the child's initiative and his power for expression. (3) To increase his language power: (a) by arousing and stimulating thought, (b) by adding *huge*, *wee*, and *frightened* to his vocabulary, (c) by establishing the correct use of *came*, *sat*, *lying*, and the habit of adding the final *g* in *tasting*, *walking*, *sitting*, and *lying*. (4) To teach him proper organization in thinking. (5) To teach him to think and to talk while standing.

III. *Child's Motive*: (1) To enjoy the story. (2) To make pictorial drawings of parts of the story. (3) To represent parts of the story in clay. (4) To answer the teacher's questions correctly. (5) To gain practice in the telling of the story so that he may tell it to his mother. (6) To tell certain parts of the story in such a way that his classmates will imagine they see the different characters as he talks. (7) To dramatize the story.

IV. *Subject-matter and Procedure*:

Once upon a time there were three bears. One was a great huge bear. One was a middle-sized bear. The other was a wee baby bear.

These three bears lived in a house in the woods. The great huge bear had a great huge bowl to eat out of, a great huge chair to sit in, and a great huge bed to sleep in. The middle-sized bear had a middle-sized bowl to eat out of, a middle-sized chair to sit in, and a middle-sized bed to sleep in. The wee baby bear had a wee bowl, a wee chair, and a wee bed.

One day when the bears started to eat their soup, they found it too hot. So they decided to go walking while it cooled. While they were gone a little girl named Goldilocks came by. She had never seen this house before, and she wanted very much to know who lived here.

She went to the door and knocked and when no one came she decided to go in. She saw the three bowls of soup and as she was very hungry she tasted the soup in the great huge bowl, but it was too hot. She tasted the soup in the middle-sized bowl, but this was too cold. Then she tasted the soup in the wee bowl and as this was just right she ate it all up.

Then she saw the three chairs and decided to rest a while. She sat down in the great huge chair but it was too high. She sat down in the middle-sized chair, but it was too hard. Then she sat down in the wee chair and it was just right, but she sat there so long she broke it.

Then Goldilocks went upstairs where she saw the three beds. As she was sleepy she decided to lie down and take a nap. She lay down on the great huge bed, but it was too high at the head. She lay down on the middle-sized bed but it was too high at the foot. Then she lay down on the wee bed and it was just right. Before Goldilocks knew what had happened, she was sound asleep.

About this time the three bears came home. When they started to eat their soup the great huge bear said in a great huge voice, "Some one has been tasting my soup." The middle-sized bear said in a middle-sized voice, "Some one has been tasting my soup." The wee bear said in a wee voice, "Some one has been tasting my soup and it is all gone."

Then they looked at their chairs and the great huge bear said in a great huge voice, "Some one has been sitting in my chair." The middle-sized bear said in a middle-sized voice, "Some one has been sitting in my chair." The wee bear said in a wee voice, "Some one has been sitting in my chair and it is broken."

The three bears ran upstairs to look at their beds. The great huge bear said in a great huge voice, "Some one has been lying on my bed." The middle-sized bear said in a middle-sized voice, "Some one has been lying on my bed." The wee bear said in a wee voice, "Some one has been lying on my bed and here she is fast asleep."

Just then Goldilocks opened her eyes. She was so frightened when she saw the three bears that she ran down the stairs and out of the house. She did not stop running until she reached home and she never, never bothered the three bears again.

SUBJECT-MATTER**PROCEDURE***First Day*

Story of "The Three Bears."

"Did you ever see a bear? Tell me about it. Would you like to hear a story about three bears?" The teacher tells the story. "Would you like to have been in Goldilock's place? Why (or why not)?"

Second Day

Pictures:
bears (use pattern)
house
bowls
chair
beds
Goldilocks
(use pattern)

"Did you enjoy the story of the Three Bears? How would you like to tell the story by pictures? Let me tell it again and then you tell me when I finish what we can draw." She tells the story. "What can we draw?" The list of things suggested is placed on the board. "Now if our pictures are to tell the story how must we arrange them? Which should come first? Second?" It may be necessary to review the story in order to secure a proper arrangement. The children are now ready

to draw the pictures. The teacher should accept even the most crude drawing. "What does it mean by *the great huge bear?* What size should we make him?" The sizes of other bears, the bowls, chairs, and beds are developed in the same way. "Suppose you draw the pictures for your mother or your little brothers and sisters when you go home."

Third Day

house
bears
bowls
chairs
beds
Goldilocks

"How did we tell the story of the 'Three Bears' yesterday? Did you draw any pictures for your mother, brothers, or sisters? How would you like to tell it in another way? Let us tell it with clay. Let me tell it again and then be ready to tell the different things we can mold." The teacher tells the story and proceeds to list of articles and the molding of the objects as on the previous day. "What can you tell your mother about the story tonight?"

Fourth to Seventh Days

came

"What did you tell your mother about the 'Three Bears?'" Who came by the 'Three Bears' house?" She allows two or three children to repeat the sentence "Goldilocks came by the house of the 'Three Bears'." "Who came by your house yesterday? Who came to school with you?" She continues the questions until each child has used *came* in a sentence.

huge

"What size was the big bear? Have you ever seen anything that was huge in size? Tell me what you have seen." The child answers by a sentence containing *huge*. "See if you can use this word when you go home."

frightened

wee

Frightened and *wee* are developed in the same way.

tasting

"What did the great huge bear say when he found some one had been tasting his soup?" Two or three children are allowed to tell. The teacher should carefully note that the final *g* is distinctly enunciated. "What did the middle-sized bear say?" She should continue until each child has had an opportunity to use *tasting*. *Walking*, *sat*, *sitting*, and *lying* are developed in a similar way.

walking

sat

sitting

lying

1. Description of the bears

2. Description of the bears' home

Eighth Day

"Do you like to hear stories? I wonder if you would like to be able to tell the story of the 'Three Bears'? How do we learn to do things well? Yes, by practice. Let us practice telling this story and when we can tell it well we will invite mother to come to hear us tell it.

"John may tell the part that describes the bears. Tell it so we shall imagine we see the three bears." Close attention should be given to the correctness of the language.

"Mary may tell the part that describes the home of the bears. Try

to make us imagine that we see this home."

3. Visit of Goldilocks "Sam may tell about Goldilocks' visit.

4. Return of the three bears "Helen may tell about the return of the three bears."

 "Practice telling this story to your little brothers and sisters."

Ninth and Tenth Days

Reproduction as on the eighth day.

Eleventh Day

"How would you like to dramatize this story? What characters shall we need? I will write the names of the characters on the board. Whom shall we select for the great huge bear? Why do you think Harley will make a nice big bear?" The other characters are selected in the same way. "What things shall we need? I will write the list on the board. Where shall we have the home of the bears? What shall we use for the bowls?" She should continue until all the stage furniture is selected. The children should be led to see the necessity for variety in the sizes of the bowls, chairs, and beds, after which the story is dramatized. Especial attention should be given to the language used. If the teacher feels that her aim has not been fully accomplished, she may continue the reproduction and dramatization of the story for several more days.

There should be frequent review in the reproduction and in the dramatization of stories.

First, second, or third grade

I. *Topic*: Poem, "The Two Kittens."

II. *Teacher's Motive*: (1) To arouse and stimulate thought. (2) To teach a love for good literature. (3) To train in the use of good English, with special attention to *begin*, *begun*, and the choice of forceful words in expressing thought. (4) To train the child to clear, systematic thinking by finding thought groups in the poem. (5) To train him to express himself systematically, fluently, and beautifully.

III. *Outline*:

1. The cause of the quarrel
2. The quarrel
3. The punishment
4. The lesson

IV. *Child's Motive*: (1) To listen to a poem about two kittens. (2) To discover answers to certain questions asked by the teacher. (3) To answer the questions by repeating the exact words of the poem. (4) To discover the thought groups in the poem and the best way of wording these topics. (5) To discover the mental pictures and to tell the story of the poem. (6) To be able to recite the poem to his mother.

V. *Subject-matter and Procedure*:

SUBJECT-MATTER	PROCEDURE
1 Recall of experience with kittens.	1
	<p>Preparation: "Do you have a kitten? Have any of you two kittens? Did you ever see two kittens have a quarrel? What</p>

was it about? What do you think would cause a quarrel between two kittens more quickly than anything else?"

2

Two little kittens, one stormy night,
Began to quarrel and then to fight;
One had a mouse, the other had none,
And that was the way the trouble
begun.

"I'll have that mouse," said the bigger
cat.

"You'll have that mouse? We'll see
about that."

"I will have that mouse," said the
elder one.

"You won't have that mouse," said
the little one.

I told you before 'twas a stormy
night
When these little kittens began to
fight;
The old woman seized her sweeping
broom,
And swept the two kittens right out
of the room.

The ground was covered with frost
and snow,
And the two little kittens had no-
where to go;
So they laid them down on the mat
at the door,
While the angry old woman was
sweeping the floor.

2

Presentation: "I have a poem here about a quarrel between two kittens. See what this quarrel was about." The teacher reads the poem.

"How did you like it? What was the quarrel about? What happened to the kittens?" If the children cannot answer, she should re-read the poem. "What kind of weather was it?" If it is necessary the poem is re-read. "What time of year was it? Listen as I re-read it and see if you can find out." She re-reads the poem. "Did it tell in more than one place? Listen while I read it again and see if you can repeat the parts where it tells about the time of year." The poem is re-read. "Who can repeat the exact words in one part? Who can repeat the exact words in the other? How did the old woman feel?"

And then they crept in as quiet as
mice,
All wet with snow, and as cold as
ice;
For they found it was better, that
stormy night,
To lie down and sleep, than to quar-
rel and fight.

How do you know? Listen while I read and see if you can repeat the exact words that tell?" The teacher re-reads the poem. "What was the cause of the quarrel? Which stanza tells that? Let me read the first stanza and see if it tells the cause." She reads the first stanza. "What is it about? I will write *The cause of the quarrel* on the board.

1. The cause of the quarrel.

"Let me read the second stanza to see what it is about." She reads the second stanza. "What was it about? Let us say it in two words. What shall we say? I will write *The quarrel* just under *The cause of the quarrel*.

2. The quarrel

"I will read the third and fourth stanzas and then I want you to tell me what they are about." She reads these stanzas. "What did they tell about? If you were to quarrel like that what would mother be likely to do to you? Yes, she would punish you. How did the old woman punish the two kittens? Was that all of the punishment? Then what shall we call this part?" This topic, *The punishment*, is written on the board.

3. The punishment

"What lesson did the kittens learn? Let me read the last stanza, then be ready to tell me what it is about. How shall we say that?" The topic,

4. The lesson they learned

The lesson they learned is placed on the board.

Mental pictures

"How many pictures does this poem make you see? Let me read the first stanza and then tell me what the pictures are." The teacher reads each stanza and has the children describe the mental pictures.

Story of poem

"Who can tell the story of the poem? What is the first thing it tells? The next?" She continues by referring to the outline, until each topic is given. "Who is ready to tell the story? Isn't the story beautifully told in this poem? Wouldn't you like to tell it in this way? Then we will invite mother to come and hear us say it. What did the first stanza tell? Now let us see if we can say it just as it is in the poem?" It is more than probable that the children will have memorized the exact wording by this time; if not the teacher may, by skilled questions help them to get the exact wording.

"Who will repeat the stanza that tells about the cause of the quarrel? Now I will repeat the remainder so we shall have the entire story. What is the second stanza about? Let us see if we can tell about the quarrel in the exact words of the poem." She continues until the entire poem is memorized, referring constantly to the whole poem.

The poem should be reviewed frequently. The attention should be called to the use of *began* and *begun*, followed by their use in games and exercises.

If a poem is dramatic, the child may make the appropriate gestures. The teacher should frequently have a child to suggest the parts he likes best. His attention should be called to any beautiful phrases or correct forms. He should be encouraged to use these in his daily conversation, first by helping him to find an opportunity through games and conversational exercises, and later by praising any spontaneous effort.

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CHAPTER XIV

ARITHMETIC

AIM

The first question which presents itself is the "why" or the function of arithmetic. This is a very important issue, as the "what" and "how" are purified and modified by the use made of the arithmetical knowledge.

The origin of arithmetic dates back to the early ages when it sprang from the utilitarian need of a means of dealing with the quantitative side of life. In the different periods which have elapsed since its origin, the reasons for teaching arithmetic have varied. The utilitarian reason has always been an important one, and in addition several other reasons have been promulgated. The most prominent of these is the cultural reason. The advocates of this reason claimed that the study of arithmetic developed and strengthened the mental powers by training the pupil to reason, by sharpening the wits, and by training to habits of accuracy. In addition to these, it was claimed that it paved the way for the sciences. These claims were based on the old psychological assumption that the brain was made up of certain faculties, as the faculty of reasoning. It was thought that training the pupil to reason in any one field would enable him to reason in any field. Modern psychology teaches that this is not altogether true, as training in one field carries over into another only in so far as these fields are similar.

Though the present opinion as to the cultural value is not so extensive in its scope as the earlier opinion, it is still the opinion of many leading educators that there is a cultural value which is a necessary part of a broad education. However, the primary teacher is not interested, primarily, in this discussion, as the function of primary arithmetic is purely utilitarian. That is, it is to enable the child to do the things which he wants to do in his daily life from a quantitative standpoint.

SUBJECT-MATTER

As the primary purpose of arithmetic is to help the child solve the common problems of his daily life, all the first work should be closely related to his life; for instance, counting, measuring, weighing, comparing, gardening, and games. Practically all primary arithmetic could be worked out through these activities and thus become a live and interesting subject to the child. If it were worked out in this way it would be one for which he would feel the need, and one which he would desire to learn.

The play element has the strongest appeal to the child and should always stand in the background as giving meaning to the work in hand.

The needs of the child will necessitate the ability to write and read numbers, a good working knowledge of addition, subtraction, multiplication, simple division, the common measures such as the pint, the quart, the gallon, the inch, the foot, the yard, the pound, and the Roman numbers from I-XII. This good working knowledge should mean accuracy, reasonable speed, and the ability to apply this knowledge to the mathematical problems of daily life.

Course of Study

There is a difference of opinion as to the proper time for the introduction of arithmetic as a subject. Some would place it in the first year; others in the second or third year. Those who want it in the first year, claim that the child is as ready and as eager to learn number facts as he is to learn to read. Those who would defer the number work until later argue that though the child may be anxious to learn number facts, it will be of much more profit to him to wait longer as he will be better developed, and that this time would be much better spent in adding to his language power.

All are agreed that he should be given that knowledge of numbers which will give him control over the quantitative side of his social and industrial life. A study of the child's activities should reveal what this will be.

A course of study planned as a compromise between these two views should consist of the following work:

First Grade. Counting, reading, and writing of numbers from 1-100 by 1's, by 10's, and by 5's; simple measuring and comparing, incidental arithmetic; games involving some of the simple addition facts.

Second Grade. Incidental arithmetic; games, reading and writing numbers to 1000; the numerical scale of tens, ones, hundreds; the forty-five addition facts; column addition; subtraction based on the forty-five addition facts; measuring, weighing, comparing; changing of money; telling time; simple fractions as $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{3}$, multiplying and dividing as it naturally develops in the addition tables.

Third Grade. Incidental arithmetic; games; reading and writing of numbers to 10,000; review of addition

and subtraction; carrying in addition, borrowing in subtraction; multiplication tables; carrying in multiplication; measuring, weighing, comparing; changing of money; simple division in connection with the multiplication tables; simple fractions in connection with the construction work and the multiplication tables.

METHOD

Practically every school activity offers opportunity for development of the number instinct. All such opportunities should be noted and utilized in order to satisfy the number need. Some of these opportunities are suggested as follows:

1. Find the number of children present; the number absent; find how many rows of seats; how many children in each row.
2. Tell the number of the page of the reading lesson; write the number of the page on the board; how many cards each child received in the word game; find how many times a new word occurs in the reading lesson; in what lines this word is found; the number of scissors needed for each row; the parts of a folded paper used in the construction work, for example, the half, the fourth; the number of squares into which the paper is folded; the number of squares cut away.
3. In nature study there is endless opportunity for the number element as the number of different kinds of wild flowers found on the way to school, the different kinds of trees.
4. Make a weather calendar using dates.

These are only a few suggestions as to the possibilities of utilizing the number element in an incidental way. Not only will these needs furnish an adequate motive

for the number work, but the result will be the development of the number instinct in a natural way.

Counting. Counting is the earliest number impulse and forms the basis of practically all primary arithmetic. The first counting should be that of objects. The game element may be utilized to an advantage in these early lessons; for instance, the teacher takes a handful of corn and allows each child to guess how many grains she has. The guesses are written on the board, and then the grains are counted. Another plan is to scatter the grains of corn on the table and see who can pick up the greatest number.

Many and varied are the forms which the concrete counting may take; for instance, the number of children in the class each day, the number of children in the school, the number of books in the class, the number of sheets of paper and of scissors to be used in the handwork, the number of words learned or the number of children needed to dramatize a story. These are only a few suggestions of the natural opportunities for concrete counting which are found in every schoolroom.

In teaching the child to count to 100, time may be saved if he is first taught to count to 10, then to 20, followed by counting to 100 by 10's; for instance, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100. If these steps are thoroughly taught it will be a simple matter to complete the series of 1 to 100 by ones.

After the child has learned to count to 100, the next problem is that of reading the number symbols. This work may be made very interesting by associating it with games and devices. It will simplify matters first to teach thoroughly the reading of the symbols from 0-9.

A device which may be used in teaching the reading

of these number facts is as follows: the figures are written on cards using large type. These cards are given to the class. A child comes forward and reads the first row from the chart and then places the pointer on 1 and says, "I want Mary to bring me 1." This card is pinned up and he then calls for 2. He continues until he has made the entire first row.

After the child has had some experience in reading from 0-9 in the regular order, he is trained to the instantaneous recognition of these figures. When this step is thoroughly learned, he should be taught to read the numbers by 10's beginning with naught, as 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100. If these two things are thoroughly taught, the remainder of the series will fall into an easily acquired form. In other words if he knows the figures from 0-9, he very quickly learns any number symbol within the decimal series.

The third problem is to teach the writing of the numbers from 0-100. This should be done in a similar way, that is, the child is first taught to write the symbols from 0-9, second by 10's, third, the entire series.

Counting, reading, and writing by 1's and 10's may be extended to similar work with 5's, 2's, 3's, 4's, etc., working both forward and backward. These exercises are the foundation of good work in addition and multiplication and should be drilled on until all sums of this kind can be given accurately and rapidly.

The counting, reading, and writing of numbers should be gradually extended beyond 100 as the child advances.

The numbers beyond 100 may be taught in a very brief time by following this same plan.

Addition. Since addition is based on counting, naturally it is the next step in the arithmetic process.

Interesting objects should be used in natural ways in developing the addition facts; for instance, the teacher uses blocks of wood, cardboard, or paper and calls them railroad cars. She has each child to form a train of 3 cars loaded with horses, then has him couple on 3 cars loaded with cows. The question is to discover how many cars he has in the entire train. This little device will prove more interesting to him than to find out how many 3 blocks and 3 blocks are. The objects should be changed frequently if he is to gain the true number concept.

Many teachers object to allowing the child to use his fingers as they feel that it is a habit which will be hard to break. The fault is not in allowing him to use these natural counters, but in not training him to rapid oral work. When a fact can be given automatically there is no desire to use the fingers. The objects are to be discarded only when the child has comprehended the fact that a figure is the symbol of an idea. However, a too long-continued use of objects is harmful as it retards speed.

The forty-five addition facts from 1-20 should be taught with the utmost care since all the other additional facts are based on these. These combinations are as follows:

1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 3 3 3 3 3 3 3 4 4 4 4 4 4
1 2 3 4 5 6 7 8 9 2 3 4 5 6 7 8 9 3 4 5 6 7 8 9 4 5 6 7 8 9

5 5 5 5 5 6 6 6 6 7 7 7 8 8 9
5 6 7 8 9 6 7 8 9 7 8 9 8 9 9

These combinations should be developed and given meaning by the use of natural and interesting objects.

The work should then develop into abstract work. Only as the child can automatically give the sum of any number symbols has he mastered the quantitative side of life as it applies to addition. These facts should be drilled on until they are thoroughly mastered.

Inasmuch as the child is familiar with reading and writing numbers to 100 before he begins this work, after he learns 3 and 2 are 5, he can readily see that 3 and 22 are 25; 3 and 32 are 35, etc., to 3 and 92; in other words he should be led to see that 3 added to any number ending in 2 will give the next number ending in 5. This can be taught in all the combinations and is a direct preparation for column addition.

Single column addition should begin as soon as the child has mastered enough combinations to justify its use; for instance, after he has learned 2 3 5 he could add a

$$\begin{array}{r} 121 \\ - - - \end{array}$$

column made of 2, 1, 2 and 1. Before giving him a column the teacher should be sure he has had all the necessary combinations to enable him to add the column.

He should not be allowed to form the habit of counting his fingers or marks in column addition, as this retards speed. For this same reason it is better to avoid giving written work to be done at the seat, unless the teacher feels sure the facts are automatic.

Before teaching "carrying" in addition it will be wise to develop the scale of ones, tens, hundreds, etc. Without this knowledge it will not be possible to teach the child the reason for the so-called "carrying" process. A reason should always be given where it is possible, as the thorough mastery of a subject is more quickly accomplished if it has its basis in understanding.

The following outline is given by way of suggestion for

developing the numerical scale of ones, tens, hundreds, etc.

Material: toothpicks, shoe-pegs, or kindergarten sticks, and rubber bands or string.

I. Counting to 100 by 10's is reviewed.

II. Toothpicks and rubber bands are given to each child. "Count out 10 picks for me and bind with a rubber. Make me 10 bundles of 10 each. Show me 1 ten. Write 10 on the board. Show me 2 tens. How many is that? Write 20 for me. Show me 3 tens. How many is that? Write 30." The teacher should continue in like manner until each child has comprehended the fact that the numbers 10, 20, 30, etc., are really 1 ten, 2 tens, 3 tens, etc.

III. The teacher writes 60 on the board and asks, "How many is this? Read it by tens." She then writes 70, 50, 80, 40, and has each read by tens.

IV. "Write 2 tens. How many is this? Write 4 tens. How many is this?" She continues until each child thoroughly understands the principle involved.

"How many figures do we use in writing the tens? In counting to see what a number is we count from right to left. See which place is occupied by the figure that tells how many tens there are. Let us see if this is true every time." She has each child to write 2 tens, 7 tens, 9 tens, etc. In this way she leads him to discover that the tens place is always the second place from the right.

V. "Show me 1 ten and 2 ones. How many is that? Write it on the board. Show me 3 tens and 4 ones. How many is that? Write it on the board." She continues until each child has a clear understanding of the principle.

"Show me 35 in tens and ones. Read it by tens and

ones." She continues until each child understands the principle. "Which is the tens place? Let us see which is the ones place. Write 46. Read it by tens and ones. Which is the figure that tells the number of ones? Which place is that if you count from the right?" She continues until each child is able to form the rule that the ones occupy the first place from the right. "Read these numbers by tens and ones." She places several numbers on the board and has them read.

The reason for carrying in addition can be presented as follows: "What is this number (28)? Read it by tens and ones. Place that many toothpicks on your desk. What will it be? Yes, 2 tens and 8 ones. What is this number (44)? Read by tens and ones. Place that many more tooth picks on your desk. Let us add them together. Add the ones first. How many? When you have enough ones to make a ten you must bind them into a ten. What will 12 ones make? Where shall I place the 2 ones? Yes, on the ones place. What shall we do with the ten? Yes, place it with the other tens. Add the tens. How many? Now, where shall I place the number? Yes, in the tens place." The teacher should have a great number of examples worked using bundles of toothpicks until the child understands thoroughly what is meant by carrying.

Drill in addition should be continued through all the grades, as accuracy in this process is likely to be followed by accuracy in all other processes.

If the child is to be entire master of the adding habit he must be trained to check his work. In addition the check is to add up and then down.

Subtraction. Subtraction and addition are so closely related that the processes should be taught simultaneously.

The Austrian or adding method of subtraction is advocated by many teachers. These teachers claim that the same habit does for both processes, and that this method of subtraction gives additional practice in adding. Investigation will show that this is the method used in the business world; for instance, in making change, by expert cashiers, and others.

The Austrian method is illustrated in the following process: In the example 7—2 instead of saying "7 less 2," we would say "5 added to 2 makes 7."

An example involving the carrying process would be as follows:

What is the difference between 35 and 17?

To find the difference between 35 and 17, we find out what must be added to 17 to make 35.

35 35 = 3 tens and 5 ones.

17 17 = 1 ten and 7 ones.

—

18

As 7 ones is greater than 5 ones we cannot add anything which would make 5 ones, therefore we must change one of the 3 tens to ones and add this to the 5 ones. Then we have

2 tens	and	15 ones
1 ten	and	7 ones

1 ten (added to 1 ten) 8 ones (added to 7 ones)

The subtraction process which involves carrying should not be taught until the simpler process is thoroughly understood.

The borrowing process in the "take-away" method may be rationalized as follows:

35

17

—

"Show me 35 in tens and ones. Place on your desk." The teacher writes 35 on board. "I want you to take this many away." She places 17 under 35. "How many is this in tens and ones? Which do we take away first? (They have already had the process which does not involve borrowing.) "Can you take away 7 ones from 5 ones? What shall we do? Mary says to break up one ten. How many ones will we have? Then take away 7. How many left? Which is the ones place? Then where shall I place 8 ones (figure)? How many tens did we have left? How many were we to take away? Take one ten away. How many does that leave? Where is the tens place? Then where shall I place the figure that tells how many tens we have left?" Objects should be used only long enough to rationalize the process.

The teacher should definitely decide which process of subtraction she desires to use, selecting the one which she thinks will give the best results. She should not attempt to teach both methods, as it will confuse the child. After one method has been established, the teacher should avoid trying to change it.

The child should be trained to use a check in all subtraction work. This will consist in adding the result to the second number in the series.

Multiplication. Multiplication is developed as a means of shortening addition and should find its basis in addition.

Before beginning to teach a table rapid counting by the number of the table should be given, beginning with naught and extending to the limit of the table; for instance, for the table of 3's the counting should be 3, 6, 9, 12, 15, 18, 21, 24, 30.

A table should first be memorized in regular order for three reasons, (1) it is easier, (2) it is rhythmic, and (3) its regular order is a background of knowledge to which the child may return if he forgets a fact. After the table is learned in the regular order it should be thoroughly drilled on in the irregular order as this is the way it is used in the step of application. The step of application should follow each table. This should take the form of oral and written, and concrete and abstract exercises.

¹Investigations show that the tables offer varying degrees of difficulty. It would seem best to begin with the one which offers the least difficulty and teach the others according to their rank in this scale. The following order is suggested, 10's, 5's, 2's, 4's, 8's, 3's, 6's, 9's, 7's.

The attention should be called to the similarity between the products in the tables of 2's, 4's, 8's and in the 3's, 6's, 9's. In counting by 9 call the attention to the fact that the last figure is one less each time until naught is reached when it changes to 9.

Simple division and simple fractions may be developed in connection with a multiplication table; for instance, when 2(2) has been developed, the child may be asked, "How many 2's in 4? What is $\frac{1}{2}$ of 4?"

The process of carrying in multiplication should be presented in such a way that the child may understand the reason for the process. If the mastery of carrying

¹Special Method in Arithmetic, McMurry.

in addition has been based on understanding, this will be an easy task. The following outline is offered as a suggestion:

65

3

—

"Read 65 in tens and ones. 3(5 ones) make 15 ones. How many tens is this? How many ones left? Where is the ones place? Place the 5 ones in ones place. What is 3(6 tens)? Add the 1 ten. How many hundreds in 19 tens? How many tens left? Where is the tens place? Write 9 tens in the tens place. Where is the hundreds place? Write 8 hundred in its place. What did we really do? Yes, we found how much 3(65) were. Then how can we tell if we are right? Then let us add 3(65's) together."

Multiplying by numbers ending in naught offers another process for which the children should understand the reason. The outline of the process is as follows:

1. Counting to 100 by 10's is reviewed. 2. The table of 10's is reviewed. 3. "How many are four tens? Place a naught at the right of 4. What number have you? 40 is how many 4's? Place a naught to the right of 6. What number have you? 60 is how many 6's?" The teacher should continue until the child sees that each time a naught is placed to the right of a figure it becomes ten times what it was before. 4. She should lead him to see that when he multiplies a number ending in naught he simply draws or places the naught to the right of where he will place his answer, which amounts to multiplying by ten. 5. She then leads him to see that if he adds 2 naughts it is the same as multiplying by 100.

Measuring, Weighing, Comparing. The child may compare the height of different children, and then measure to find if he is right. He may guess the length of desks, lines, sticks, and other familiar objects. In the same way he may guess as to the quantity of water, sand, etc., in pints, quarts, etc. He should have a play store and buy and sell by the yard, pint, quart, gallon, and pound. Toy money should be used to make change.

Through those activities not only will much be learned about these common measures but many practical problems in addition, subtraction, and multiplication will be worked out.

Roman Numbers. The small child has very little use for Roman numbers with the exception of the figures from I-XII. These should be taught in connection with the face of the clock or the watch.

CHAPTER XV

ARITHMETIC—(Continued)

THE LESSON PLAN

Two types of lessons are involved in the teaching of arithmetic; namely, the inductive lesson and the drill lesson. The inductive lesson is always used in the presentation and the development of a new process. It consists of a (1) problem, (2) the study of individual points which will help solve the problem, and (3) the summary or the solution of the problem.

After the new process has been developed the aim is to make this process function in an automatic way. The child must form the habit of thinking and of saying numbers in a certain order, and of giving a certain response to a certain combination. When he sees or hears 5×5 he should automatically think or say 25. In other words, the processes involved in addition, subtraction, multiplication, and simple division must be relegated to the plane of habit so that the mind may be freely given to the thought involved in solving the natural problems of daily life.

The steps in the drill lesson should be those involved in any habit-forming lesson; namely, (1) a motive for establishing the response; (2) a clear idea of the response; (3) attentive repetition of the response; (4) no exception; (5) reviews; and (6) the application of the habit in a practical way.

1. **Motive.** In arithmetic, as in all other subjects,

interest is the keynote to success. As the child is essentially a creature of the present, this interest finds its source in his present-day life; that is, in the schoolroom, home, and playground activities. In other words, his arithmetic lessons should grow out of his real need for numbers. Only in this way can the teacher lead him to feel the need of arithmetic.

It is true that many children naturally like the work with numbers and delight in rapid work with abstract numbers, but the greater number would work with added zest if the work were approached from the standpoint of utility. It is every child's natural right to know why he should learn a certain process; in other words, he must see and feel that he is getting something worth while out of it so that he may bring interest, intelligence, and energy to bear upon the process.

If the teacher will plan to bring out the number element in handwork, nature study, reading, class management, and all other schoolroom activities, the problem of motive will, in a measure, be solved.

Probably one of the best sources of motive is that of the game. Though the game may take many and varied forms, it will always be full of interest to the child, causing him to bring much energy to bear upon memorizing the number facts involved.

Games. Games containing the number element may be used very profitably in developing the number instinct. The teacher should use games requiring much counting, bean bag games, and easy scoring games.

a. The class is divided into two or more sections. Each section is provided with a bean-bag, ball, or an eraser. A waste basket or a box is placed at a given distance from a base. Each side takes turns in the

attempt to pitch the bean bag into the receptacle. Each time the attempt is successful it scores one. The side with the largest number of scores wins the game.

b. A basket or box is placed as in game one. Each child in the class is given two trials in the attempt to pitch the bean bag into the receptacle. If the bean bag goes into the receptacle it counts two; a failure counts one. At the close of the game each child adds up his numbers. The numbers may be varied.

c. The class is divided into sections as in game one. In place of using a basket or box a circle is drawn on the floor. The procedure is the same as in game one.

d. The teacher draws two concentric circles on the floor. The smaller circle is numbered two, and the larger one. The game proceeds as in game two.

e. The players are seated in rows, each row to have the same number of children. The first child in each row is given a bean bag. At a given signal each leader lifts the bean bag back over his head, and drops it on the desk behind. The second child in turn lifts it over his head in the same manner. Each child in turn lifts it over his head until the last child in the row is reached. This child runs to the front and places the bean bag on the first desk in the row. The row first accomplishing this scores one. Then each child moves back one seat and the child bringing the bean bag forward occupies the first seat. The play then continues as before.

Books of Games—

Smith, Number Games, Teachers' College, New York.

Johnson, Education by Plays and Games, Ginn & Co., Boston.

Holton, Games, Seat Work, and Sense Training, A. Flanagan Co., Chicago.

2. **Clear Idea of the Response.** A clear idea of the thing to be drilled on is an essential element in a drill lesson, inasmuch as drill is for the purpose of deepening certain impressions or making certain connections. Since each repetition should further this purpose it is of vital importance that the impression be a clear one. It will be best to use only a very few combinations in any one drill lesson, as too many will result in a confused impression of the desired response.

3. **Attentive Repetition.** After the clear idea is acquired, the habit of making the correct response rapidly and automatically is formed through attentive repetition.

However strong the motive with which the child starts, the attention is likely to wander if the drill is of long duration. Usually a short, snappy drill requiring immediate response will prove much more effective than one of longer period.

A great variety of games and devices should be used if the child is to be kept up to the mark in attention.

4. **No Exceptions.** The early drill lessons should be so conducted that the possibility of an error will be reduced to a minimum, otherwise the tendency will be for the child to form the habit of guessing which leads to inaccuracy.

Strayer¹ says, "Our nervous system is so constructed that to do anything once leaves a tendency to do the same thing the same way when next we are placed in a similar situation. It is bad to allow careless work or random guessing, not simply because the result in this one case may be wrong, but more especially because the tendency to the wrong reaction is there and must be

¹A Brief Course in the Teaching Process.

overcome before the correct action can be fixed as a habit."

The teacher should have very little concert work, as she can be sure of neither accuracy nor attention.

5. Reviews. If the number facts are to be permanently fixed there should be frequent reviews or drills. The length of time elapsing between these reviews or drills should be gradually lengthened. They should not be entirely discontinued until the child shows satisfactory evidence that the number habit is firmly and permanently established.

6. Application. If the number facts learned are to have real significance there should be a definite step of application in both concrete and abstract exercises. This should be both oral and written.

If the child is to develop the ability to apply his knowledge to the ordinary problems of daily life the material and language used should be varied in form. Often he can understand the problem only when it is expressed in a certain phraseology. The teacher should be sure that he thoroughly understands each problem and that he is developing the power to analyze a situation and discover what to do.

It is not possible for a text-book to be written which will furnish the concrete problems. These must develop from the everyday life of the pupil. They should be of such nature as to appeal to him as practical from his standpoint. Not only should these problems be given but the child should be permitted to make up problems. He should be encouraged to watch his games and other daily experiences for these problems. This will stimulate vigorous thinking.

The teacher should make a list of the interests of the

child as a basis for the concrete work. If the problem does not touch his active interests, it is not concrete in the best sense.

The ideal way to learn the arithmetic processes would be through work with concrete examples, but because accuracy and speed are necessary if the child is to be master of the quantitative side of life, there must be work in abstract exercise both oral and written.

Oral work should always precede written work; in fact, the only excuse written work has for existence is that the mind is unable to solve many problems without the aid of the pencil.

Formal analysis has no place in the primary grades, but it is advisable to train the child to tell how he arrives at a solution and why he uses a certain process. Not only does this prevent guessing but it reveals the line of reasoning. An exact form in the wording should not be required, but the child should be encouraged to seek for the best and briefest form of analysis.

Class Mechanics. As previously stated every precaution should be taken against the first error. In a drill, it is better to keep the desired response in view for reference, should there be hesitation over the answer. The child should be encouraged not to answer unless he is sure of the correctness of his response.

ILLUSTRATIVE LESSON

First or Second Grade

I. *Topic:* Developing the addition facts 3 2 4 and
3 4 2

— — —

the allied multiplication, and division facts.

II. *Teacher's Motive:* (1) To help the child to discover certain number facts through the use of interesting objects.

III. *Child's Motive:* (1) To play the games. (2) To read the numbers.

IV. *Subject-matter and Procedure:*

SUBJECT-MATTER

PROCEDURE

1. Objects

a. blocks

3 4 2
3 2 4
- - -

"How would you like to play that you have a train and some cars? Let us play that these blocks are cars." The teacher gives each child 6 blocks. "Make a train with 3 cars. Couple 3 more to your train. How many cars have you? Take away 3. How many left? John and Sam may switch together the cars they have left. How many cars are 3 cars and 3 cars? Make a train with 4 cars. Add 2 more. How many have you? How many are 4 cars and 2 cars?

"What are your cars filled with? Switch 3 cars of chickens to the main track. Switch 3 more cars to the main track. How long is your train now? How many cars did you have at first? (3) Then how many did you switch to the main track? How many are 3 cars and 3 cars?" She should develop the idea of 4 cars and 2 cars by allowing the children to use this number of cars in the play.

b. toy money

"Each boy and girl may count out 6 pennies. Let us play we are going to buy some apples and candy. You may spend 3 cents for apples." She

has each child lay 3 cents on his desk. "How much money have you left? Now buy 3 cents worth of candy. How much money have you spent? How much did you spend for apples? How much for candy? How much is 3 cents and 3 cents?" The teacher then allows them to spend 4 pennies and 2 pennies until the idea of 4 and 2 is fully developed.

c. boys

"Let us play a game. I want 3 boys to come and stand here. Look at them and then hide your eyes; I am going to touch some other boys who are to come and stand by these. When I clap my hands you may look up and I want to see who can first tell me how many children are standing." She has 3 others to come. "How many were there at first? How many more did it take to make 6? How many are 3 and 3?" The teacher uses 4 boys and 2 boys in the game until the idea that 4 and 2 are 6 is developed.

2. Pictures: Cards with groups of 2, 3, and 4 cherries.

"Let us play that these are real cherries. Which card would you rather have? Mary may have a card with 2 cherries and Sam one with 4. How many cherries have we given away? Let us play that it is Elizabeth's birthday, and Helen brings her 4 cherries (card) and Edith brings her 2; how many has she? Let us play that she eats 2 cherries, how many has she?" The teacher should continue until the other facts are developed.

3. Imagery

"How many would like to play the game of 'Imagination'? Shut your eyes and let us imagine that we have 3 pennies in one hand. Can you see them with your mind? Now imagine you have 3 in the other hand. Can you see them? How many pennies have you in all?" She continues until all facts are developed.

4. Symbols

3 4 2

3 2 4

- - -

6 6 6

$$\begin{array}{r} 3 \\ 6 \\ \hline 2(3) \end{array}$$

"Boys and girls let me show you how to write 3 and 3 are 6. Mary may read it. John. Sam. Let me show you how to write 4 and 2 are 6. Mary may read it for me. How would we write 2 and 4 are 6?" Read this for me 3. "How many 3's

3

—

6

in 6? How many are 2(3)?" The children are now ready for the drill. Usually a drill will be more interesting if two or three facts are drilled on at one time as this offers more variety. For a type on the drill lesson see the plan for the drill on multiplication table, pages 204 to 205. These addition facts may be substituted for the multiplication facts. After these facts are thoroughly learned the series should be carried to 100; for instance 3 13 23 33 etc.

3 3 3 3

— — — —

Subtraction. If the teacher prefers to use the Austrian method of subtraction, she should first drill on the addition facts just developed and then introduce the sub-

traction by addition; for example, "What must we add to 3 to make 6?" If the old "take-away" method is used, these subtraction facts should be developed parallel with the addition facts.

Previous to this lesson the children have reviewed the games and exercises on reading, writing, and counting by 2's to 30.

Third Grade

I. *Topic:* Development of the multiplication table of 2's.

II. *Teacher's Motive:* (1) To lead the children to see the need of the multiplication table. (2) To teach them the meaning of the table.

III. *Child's Motive:* To learn a quicker way of finding the score in the game.

IV. *Subject-matter and Procedure:*

SUBJECT-MATTER	PROCEDURE
$1(2)=2$	The children have been playing a bean bag game in which the bean bag was thrown into a ring. Each time it went into the ring it scored 2.
$2(2)=4$	
$3(2)=6$	
$4(2)=8$	
$5(2)=10$	At the close of the game, the scores were as follows:
$6(2)=12$	
$7(2)=14$	2 2 2 2
$8(2)=16$	2 2 2 2
$9(2)=18$	— — 2 2
$10(2)=20$	2 2 — —

Each score was added.

"Do any of you know how we could have saved time in finding our score? What is each figure? How

many 2's have you, Mary? How many have 4(2's)? If we had known how many 4(2's) were, could we have saved time? How many 2's have you, John? How many have 3(2's)? Could we have saved time in these? What would you have needed to know in order to save time, Sam?" The teacher has each child to tell what he should have known in order to save time. "Do you know what we call the process of finding how much 3(2) is? Suppose we find out what the entire table is. What part have we found out? Suppose we start with 2. Let us write the 2's in this form:

								(9)
							(8)	2
						(7)	2	2
					(6)	2	2	2
				(5)	2	2	2	2
			(4)	2	2	2	2	2
		(3)	2	2	2	2	2	2
	(2)	2	2	2	2	2	2	2
(1)	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2

She allows the children to suggest how many 2's to place in each row. "How shall we remember how many 2's in each row? Suppose we place the number of 2's over each row. How shall we know this number is not to be added in with the 2's?" If the child cannot suggest a way, the teacher suggests the use of parentheses. "Let us add each row. How many does 1(2) make? In the table

we write it $1(2)$ makes 2 or it is shorter to write it $1(2)=2$. How many does $2(2)$'s make? How shall we write this? How many 2's in 4? What is $\frac{1}{2}$ of 4?" The entire table should be developed in this way. The children are now ready for a drill on the table.

Third Grade

I. *Topic:* Drill on $1(2)$, $2(2)$, $3(2)$, $4(2)$, $5(2)$.

II. *Teacher's Motive:* To teach a part of multiplication table of 2's so that the child will give the results automatically.

III. *Child's Motive:* To memorize that part of the table of 2's which he needs to enable him to find his score quickly.

IV. *Subject-matter and Procedure:*

SUBJECT-MATTER	PROCEDURE
$1(2)=2$	"What are we going to learn that will help us in our bean-bag game?
$2(2)=4$	When we learn this table we will play our game for 10 minutes. If each of us has five throws, how much of the table shall we need?"
$3(2)=6$	
$4(2)=8$	
$5(2)=10$	
	"I will write the table here, then we will see how quickly we can memorize it." The teacher writes the table on the board in the form shown in the margin and the children study. "How many are sure they know the first two? Look somewhere else and answer when I ask the number of 2's. Do not answer unless you are sure." She allows

several children to answer. "Let us take the first three and see how quickly you can learn them."

"Now I will erase them and I want you to write them on your tablet. Do not write the answers unless you are sure you are right." She has several children to read their combinations.

"Mary may come and be the teacher and ask for answers." She allows two or three children to come in turn and act as teacher.

The last two combinations are drilled on in the same way. The teacher then places all the combinations on the board and has them read and written by the children. They then drill on the combinations by making use of a device. The teacher dictates the combinations and the children write and supply the products.

The children are then permitted to play the game of bean bags. If a child makes a mistake he is not allowed to play the next time, but must watch the other children until he shows evidence of being able to give the table without mistake.

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CHAPTER XVI

HANDWRITING

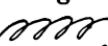
AIM

The function of handwriting is to furnish a medium for the communication of thought through certain recognized written symbols.

The teacher's aim in teaching handwriting is to train the child to the habits of reproducing these written symbols accurately, legibly, beautifully, and automatically, using an easy natural movement, and maintaining an easy natural position.

SUBJECT-MATTER

It is no more pedagogical to begin writing by teaching single letters than it is to begin reading by teaching the alphabet. The child learns to write so that he may communicate thought through written symbols. Hence, the most pedagogical way for him to learn to write should be through the symbols representing his thoughts. In other words it should be the written expression of a thought which he desires to express through writing.

In the beginning, he may present a thought by pictorial drawing as the rolling of the hoop  , the tick tock of the clock  or the movement of the swing  .

Later he may write a note of invitation to his mother inviting her to visit the school, as "Come to see us;" a letter to an absent playmate, as "We miss you;" simple letters to friends and relatives; original

stories and simple compositions which are to be read or sent to some one, words to be used in puzzle sentences and other games; sentences to be used in the game of "Deaf and Dumb." Any one of these suggestions should furnish subject-matter for many lessons.

Certain forms for these written symbols have been accepted as standard for the business world. In the light of present knowledge these forms are the most economical from the standpoint of speed, legibility, and beauty. The following symbols are a reproduction of these forms:

The Standard Script Alphabet

A B C D E F G H I J K L M
N O P Q R S T U V W X Y Z
a b c d e f g h i j k l m n
o p q r s t u v w x y z

(Drawn by Miss Sammie Cleveland, Supervisor of Writing,
Chattanooga, Tenn.)

COURSE OF STUDY

It is a much-mooted question as to whether or not handwriting should constitute a part of the curriculum of the first grade child. Those who would postpone it until the second or third year contend that his muscles are not sufficiently developed to secure the necessary coördination without too great an expenditure of nervous energy and a probable strain of the muscles. Also, that he has very little need for the ability to write, inasmuch as this is the oral period of his de-

velopment. They would utilize this early period of his school life to develop the proper coördination of these muscles through the rhythmic and pictorial drawings, leaving the written symbols for a later period.

Those who would place handwriting in the first grade contend that the advantage should be taken of the child's eager interest in learning to write which is especially manifested when he enters school. They contend that the development and proper coördination of muscles may be obtained through real writing without harm if the emphasis fall on work on the blackboard.

It would seem wiser to effect a compromise between these two opinions and begin the work in the first year with the pictorial drawing and after several weeks or months gradually change to the written symbols used in handwriting.

First Grade. In the first few weeks or months the subject-matter should consist of the pictorial representation of the child's experiences. Mother Goose rhymes and poems will prove a valuable source for this pictorial writing. The thought in the rhyme of

"Jack be nimble,
Jack be quick,
Jack jump over the candle stick."

may be pictured by the representation of the jump as *mm*

The poem of "The Swing" by Robert Louis Stevenson may be pictured by the movement of the swing, as *uu*

The turning of the rope may be represented by this picture *eee*. This same picture could also be the representation of the drawn out coil-spring or of the little girl's curl. A row of hay mounds could be pictured

as *M* , or this would represent a certain type of iron fence.

It is suggested that the major movements in writing could be drilled on in this form of pictorial writing. These movements are as follows: *OO* ~~■~~

The different forms which are used in the development of the letters are derived from these movements. They are as follows: *NU O I E T U S* -

After this preliminary work the child may write simple letters of invitation, as "Come to see me," to parents, relatives, playmates, or other schools; letters of thanks, as "We thank you"; letters to absent playmates, as "We miss you."

Occasionally, a simple poem which is to be sent to some one will furnish material for many lessons in writing, as

"Twinkle, twinkle, little star;
How I wonder what you are,
Up above the world so high,
Like a diamond in the sky."

Second and Third Grades. Rhythmic exercises for muscular control on the different writing movements; for instance, the direct oval; words needed for simple invitations, letters, and games. Written reproductions of simple stories used in the language lesson; writing of original stories from pictures; simple compositions from nature study subjects.

METHOD

Position. Inasmuch as a natural, easy position in writing is an economy of time and nervous energy, it

should be an important part of the teacher's aim to train the child to form this habit from the beginning.

He should face the desk squarely, sitting well back in the seat, with head and body erect, though some forward bending is necessary, and with feet flat on the floor. The whole of the right forearm with the exception of the elbow, should rest on the desk, supported by the muscular pad just below the elbow and by the tips of the fourth and fifth fingers. The entire left forearm except the elbow should also rest on the desk at right angle with the right forearm.

The pen, pencil, or crayon should be held lightly between the first and second fingers and the thumb at about one and one-half inches from the point. The first finger rests on the top of the pencil, which crosses the second finger just below the first joint, and comes into contact with the hand at the base of the first finger. All the fingers are slightly bent, each one slightly more than the preceding one. The hand glides on the tips of the fourth and fifth fingers.

Movement. The most commonly accepted movement in hand-writing is the muscular movement. Experiment has shown that this is the easiest, smoothest, and most natural movement. The large fleshy muscle of the forearm just below the elbow is used as a rolling base; the muscles of the upper arm and of the shoulder control the movement.

Since the muscular movement used in writing is produced by the large muscles located above the elbow and around the shoulder, extensive training of these muscles is necessary before the writing habit is satisfactorily established. Long before the period when the real writing lessons begin the child may be trained in muscular

movement through rhythmic games and pictorial writing. The rhythmic and pictorial writing games are regulated by marking the time in some way, as by counting, tapping, rhythmic phrasing, music, or the repeating of poetry.

Rhythm. In any form of muscular movement rhythm is an important consideration. If the movement is accompanied by rhythm it results in ease, smoothness, and regularity. We have only to note the rhythm of movement when a group of laborers sing as they ply the pick or shovel, to be convinced of its value.

In the rolling of the hoop the teacher repeats, "Roll, roll, roll" rhythmically as the child makes the picture. In the tick-tock of the clock she repeats "Tick-tock, tick-tock," rhythmically as he makes the movement. This rhythmic idea may be carried out in many of the suggestions for pictorial writing given in the course of study. This pictorial and rhythmic work should be continued for several weeks or months as it builds a strong foundation for the work which is to follow. It should be followed up by writing done to rhythmic counting, phrasing, singing, instrumental, or phonograph music. A catalogue from any reliable phonograph house should offer suggestions of records suitable for this work.

Rhythmic and pictorial drawing is followed by the writing of words. The children decide to write a letter of invitation to some one to visit the school, as "Come to see us." The single word *come* is selected for the first practice. A type lesson fully illustrating the class procedure will be found on pages 218 to 219.

Should the formation of some letter in the word upon which the child is practicing prove difficult, the entire period may be spent in practice on this one letter. However, a lesson period should not be given to subject-

matter of this nature unless the need for this practice has been developed with the child.

A child below the age of ten years should not be given movements which require precision, steadiness, complexity in adjustment, or rapidity in execution. To aid in avoiding these dangers it will be found much better to have all writing for the first few months done on the blackboard, and on rather a large scale. Writing in the air will also be helpful.

The first work at the seat should be on unruled paper and the child should be encouraged to write in a large hand. All new forms should be made on the board and under the direct supervision of the teacher. In the early lessons if the child makes a mistake, the teacher should erase the form and have him rewrite it. Later, he should study the correct form and then compare his with it, thus learning to discover his own error.

In the child's writing the teacher should strive first for correct movement, position, and legibility. Later he may gain the necessary speed and beauty of form through practice.

Standard. A standard by which to measure the child's writing progress is helpful. It may be used also in arousing his interest in overcoming the mistakes in his writing and in improving his record. By comparing his work with the standard he can be trained to discover where the difficulty is and how to correct it. The developing of the ability to depend upon oneself is invaluable.

Following is a reproduction of a scale which may be used in grading the child's writing.

This measuring scale can be secured from the Russell Sage Foundation, New York. Should this scale be used

in the second grade it is suggested that 20 be added to each per cent and if used in a third grade that 15 be added.

MEASURING SCALE FOR HANDWRITING

30	60	70	90
Four score and seven years ago our fathers brought forth upon the continent a new nation, conceived in liberty and dedicated to the proposition that all men are created equal. Now we are engaged in a great civil war testing whether that nation, or any nation so conceived and dedicated, can	Four score and seven years ago our fathers brought forth this continent a nation, conceived in liberty and dedicated to the proposition that all men are created equal. Now we are engaged in a great civil war, testing whether that nation, or any nation so conceived and dedicated, can	Four score and seven years ago our fathers brought forth this nation, conceived in liberty and dedicated to the proposition that all men are created equal. Now we are engaged in a great civil war, testing whether that nation, or any nation so conceived and dedicated, can	Four score and seven years ago our fathers brought forth upon the continent a new nation, conceived in liberty, and dedicated to the proposition that all men are created equal. Now we are engaged in a great civil war testing

THE LESSON PLAN

The writing lesson is essentially a habit-forming lesson, consequently, it will conform to the principles governing the drill lesson. These may be enumerated as (1) a motive; (2) a clear idea of the thing to be drilled on; (3) attentive repetition; (4) no exceptions; (5) reviews; (6) application.

1. **Motive.** That the child may be interested in learning to write, it is essential that he see the reason for it and that he feel the need for it. The teacher should arouse his desire to communicate his thought through written language, for if he is interested in this expression he will want to learn how to write and will be willing to make the effort necessary for its accomplishment. He should also be made to realize that poor writing is likely to result in misunderstanding.

The pictorial representation of ideas, the writing of letters to real people, and the writing of stories or poems which are to be read to some one should furnish practical problems and motives for writing.

The little game of "Deaf and Dumb" in which the child pretends that he cannot talk but must write will furnish endless subject-matter and motive for learning to write. A list of questions to be used in the game together with the answers may be compiled by the class. For example, "What is your name? How old are you? What do you like to play?" Then before the game may be played he must learn to write some of these questions and answers.

The filling in of the blanks in the puzzle sentences is another source of subject-matter and motive for the writing lessons. In the sentence, "I see a big white _____," the child's aim is to learn to write the word *bear* so he may fill in the sentence. A list may be compiled for use in this game as in the "Deaf and Dumb" game.

Other sources of motive are rivalry, approval of teacher or parent, admiration of his companions, reward, and fear of punishment.

2. Clear Idea Problem. Before beginning to reproduce the form, the child must have a clear idea of what is to be done, and how to do it. He should be encouraged to watch the teacher make the form again and again. His problem should be the necessary control and co-ordination of the muscles. This clear idea of what is to be done cannot be over-emphasized, for a child often stumbles and fails because he does not know what is expected of him. Then if he makes a mistake the teacher's task is much greater than it was before, for the impulse to make the wrong form and movement must be overcome before the right habits can be established. Much more will be accomplished when the teacher allows the emphasis to be on what she wants done, rather than on

what she does not want done. Of course the exception to this rule will be when the child has formed an incorrect habit of either form or movement. When one of these mistakes is discovered it should be pointed out and special practice given on the right habit. This will call for both class and individual instruction.

3. Attentive Repetition. Learning to write is a matter of practice or repetition of correct movement, therefore after the child has an interesting motive and a clear idea of what is to be done, the teacher's problem will be to keep his interest and attention while the needed repetition is being carried forward. Repetition is largely wasted time unless accompanied by concentrated attention. As a small child gives attention to a thing for only a short time, it will be best to have short drill periods. Two or three short drills, when he is fresh and will give his full attention, will accomplish fifty per cent more than one long period when he is tired and listless.

Variety in procedure will do much toward holding the attention of the class. For example, if the child is practicing on the oval, the teacher should pretend one day that he is making a little girl's curl, on another day a drawn-out spring.

4. No Exception. If the repetition is to be worth while it must be the repetition of the desired response and not that of error. The child should be trained to discover the points where the improvements should be made, and to avoid repetition of an error. In order to avoid repetition of error it would seem best for all writing to be confined to the writing period or under the direct supervision of the teacher until the correct writing habits are firmly fixed.

Error may also creep in by having the writing period

at a time when the child is either physically tired or has been indulging in strenuous physical exercise.

5. **Reviews.** In writing, as in spelling, the teacher must plan for frequent reviews of the work gone over. This will be much easier in writing, as the child's written vocabulary will develop slowly and will be very limited in scope. The teacher cannot count her task of teaching writing as completed until the child can give his entire attention to the thought which he is expressing. The mechanics of writing should be automatic and at the same time accurate, legible, and rapid.

6. **Application.** If the interest of the child is properly maintained, the skill gained through the drill should always end in the step of application. If he is learning to write an invitation, the drill should end in the writing of an actual invitation. It may take one week, two weeks, or three weeks to complete the practice on the necessary words, but the application should always be the final step.

The following outline will be suggestive of the steps taken in a writing lesson:

Lesson Outline. a. Rhythmic movements in the form of ovals, push-pull, etc., should be used as a preparation for all writing lessons. This will limber up the muscles and result in regularity of movement.

b. The teacher writes the subject-matter, after its development, on the board in a clear hand, the children observing. She should make an opportunity to write it several times.

c. The child writes in the air as the teacher writes on the board. She should count or give descriptive phrases as the form is made in order to bring in the rhythmic movement.

d. She then has individual children to write on the board. In the event of a mistake she has the child to compare his work with the copy.

e. In the second or third grades she has the word or sentence written on paper. If the material is suitable she should have rhythmic counting.

f. *Application.* The word or sentence is added to the letter, story, or poem which the child is writing, or he is allowed to play the game.

ILLUSTRATIVE LESSON

First Grade

I. *Topic:* Rhythmic motion of the pendulum.

II. *Teacher's Motive:* (1) To train the child to rhythmic motion. (2) To develop muscular control. (3) To train him to represent his ideas through pictorial drawings.

III. *Child's Motive:* (1) To make the motion of the pendulum as the teacher phrases it. (2) To make the picture of the motion of the pendulum as the teacher phrases it.

IV. *Subject-matter and Procedure:*

SUBJECT-MATTER

"Tick-tock
tick-tock"

PROCEDURE

"How can you tell when it is time to come to school? Have any of you a big clock? Did you ever see one with a pendulum? What does the pendulum do? Show me how it swings. What does it say? Play that your hand is a pendulum and when I say *tick* let it swing across, then when I say *tock* let it swing

back. Now ready, 'Tick-tock, tick-tock, tick-tock.' The teacher should continue until each child gets the movement and has learned to swing his hand to the phrasing. The phrasing should be regular and rhythmic.

"If we were to make a picture of the motion of the pendulum, how do you think it would look?" She should encourage the children to represent their ideas on the board. If they do not have the true idea she should show them how it should look.

"Mary may come and make the picture as I tell what the pendulum says. The rest of us will make it in the air." She should continue by allowing different children to make the movement with the chalk.

First Grade. This same general plan should be followed in a second or third grade.

I. *Topic:* An invitation.

II. *Teacher's Motive:* (1) To give the child a definite motive for learning to write. (2) To insure accuracy of form by giving him a vivid image of the word. (3) To form the correct habits of writing. (4) To train him to write correctly and beautifully.

III. *Child's Motive:* (1) To write an invitation to his mother. (2) To practice on *come* until he can make it correctly and beautifully. (3) To discover the rhythmic phrasing for writing *come*.

IV. *Subject-matter and Procedure:*

SUBJECT-MATTER

PROCEDURE

1. A review of the direct oval through the children turning the rope? "How did we make the picture of

pictorial drawing of the rope.

2. The indirect oval through the rhyme of Jack be Nimble.

James may come and make the picture on the board while we make it in the air. Ready. 'Turn, turn, turn, turn.' This should be continued for a short time. "Let us make a picture of the way Jack jumped as we repeated the rhyme." The teacher has the children repeat the rhyme as they make the movement.

"Wouldn't you like to have Mother come to visit us? Suppose we invite her? How shall we do it? Don't you think she will feel more as though she were invited if we send her a written invitation? What shall we say? Yes, 'Come to see us.' I will write it here on the board. What is the first word? Suppose we practice on this word until we can write it so that it looks neat. Watch me write it and see if you can discover any part of the picture of the turning of the rope." She writes *come* in large script. "Did you see it? Come and show me which part it was. Watch me write *come* again and see if you see any part that is made like the picture of Jack jumping the candlestick." She writes *come* and has the children select the familiar part. "Watch me write *come* again and see what rhythmic exercises the last letter reminds you of." The last letter is the movement used in the turning of the rope. "Suppose we say round, up, round, jump, jump, jump, turn" The teacher writes on the board as she phrases the word. The

word has now been written five times, and the children have had the opportunity to get a very fair mental image of its form and of the movement used in making it. They are now ready to begin the actual work of reproducing the written form of the word.

"Boys and girls, suppose we play that you are writing the word in the air as I write it on the board. See if you can make it as I count it. Now, let us see if you can count it as we make it again. I want some one to write *come* on the board while the rest of us write it in the air." The practice on the word is continued. The work is varied by having two or three of the children come to the board at the same time. If any letter in the word should prove difficult, she should say to the class, "We seem to be having trouble with *o*, suppose we practice on it alone until we can make it, for it spoils the looks of *come* to have a bad looking *o*." A single letter or word should never be taken for practice without some definite reason or need.

After enough board work to insure the accurate forming of the letters, a second or third grade should be allowed to practice on paper. The teacher should insist on correct position and muscular movement. She should insist on muscular movement in all lessons where writing is used.

As the child gains skill in writing, he may practice on more than one word in a lesson.

The practice should be first for accuracy in form, then for beauty, then for speed. The teacher should not make the mistake of going too fast or of attempting too much in a lesson. However, the subject-matter should be changed often enough to keep the work interesting.

In the second and third grades writing, spelling, and written language may be correlated in a very effective manner. When the exercise is written there should be a preliminary exercise in rhythmic movement, then in the writing of the words or sentence the teacher should stress form, movement, and position.

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CHAPTER XVII

SPELLING

AIM

The purpose in teaching spelling is to enable the child to communicate his thoughts accurately through the medium of written language.

SUBJECT-MATTER

As there are something like 600,000 words in the English language it cannot be expected that the child will learn to spell the entire list. The question of the selection of words for the spelling lesson is an important one.

It is suggested that the poor results attained in spelling are due to the poor selection of words making up the subject-matter of the spelling lesson and to the method or lack of method in teaching spelling. If the criticism as to the choice of words is well founded, it is important that the words be carefully chosen. When we recall that the purpose in teaching spelling is to enable the child to express himself by means of written language, we are convinced that his actual needs should be the basis of selection.

The recognition of the importance of this factor has resulted in the elimination of much useless subject-matter. The day of isolated, unrelated lists of words is past, and

also the day of imposing spelling upon the child in such a way that he feels that it is a subject for which he has little use. The spelling of today is an interesting subject, one for which he feels the need—one in which he has a personal interest.

The problem, then, is to teach the child to spell the words which he needs in his written work. There are three sources from which spelling lists may be compiled. The first of these is the spelling book. In using this the teacher should be careful to see that the words are those which are suitable to a child's written vocabulary, since the teaching of unusual words is a great waste of valuable time. Another source is the grade reader. Here, too, the teacher should use discrimination in choosing, keeping in mind the daily written vocabulary of the child. His reading vocabulary is of much wider scope than his written vocabulary, and it is a pernicious waste of time and energy to attempt to teach him to spell all the new words in his reading lessons. The third and the most valuable source is the daily written work of the child. Here, without any question, will be found the words which he needs to know how to write. The teacher should carefully watch all his written work, making a list of the words which must be spelled for him or words which he misspells. This would be the ideal list for his spelling lesson.

Because of the necessity for some system in courses of study, many teachers will find it better to have a carefully and scientifically graded spelling book as a guide, supplementing this with a list made up from the written work of the class. The Jones Primary Speller published by the Capital Publishing Co., Pierre, S. Dak., is a book which has been compiled according to the modern prin-

ciples of teaching spelling and should prove helpful to the teacher.

In using a text the teacher should furnish the child with the experience that will bring these words into his vocabulary, and then make the writing of these words the desire to express these experiences through writing.

Standard. A better type of work can be done if there is a standard by which to measure the efficiency of the class in spelling. Such a standard has been worked out by Dr. Leonard P. Ayres. The following quotation is taken from this standard: "The data of this scale are computed from an aggregate of 1,400,000 spellings by 70,000 children in 84 cities throughout the country. The words are 1,000 in number and the list is the product of combining different studies with the object of identifying the 1,000 commonest words in English writing."

Copies of this scale may be obtained for five cents each. Copies of the monograph describing the investigation which produced it may be obtained for thirty cents each. Address the Russell Sage Foundation, Division of Education, 130 East 22d St., New York City.

COURSE OF STUDY

A contention which has caused considerable discussion refers to the time when formal spelling should be introduced. Practically all agree that it should not begin in the first grade though some would place it in the second grade, others in the third grade. Almost all modern writers agree in saying that it should not be introduced until the need for it arises. The delay of written composition work and of penmanship postpones the need for it. It should be introduced as soon as the need for written expression appears.

The following course of study is not given as a set course but only as suggestions of what may be developed by the teacher.

First Grade. No formal work is done in spelling, though in reality a child begins to spell when he copies his first word. From the first the teacher should see that this is accurately done. She should not call attention, however, to the separate letters but in case of error, erase the word and have it rewritten. In this way he is trained to study the word as a whole, which is the end desired in these early lessons. Later he may be told that he has made certain letters incorrectly. When he learns to write the simple invitation in his writing lesson, he is learning to spell; likewise, in all the other subject-matter used in the writing period.

Second Grade. The words necessary to write a letter of invitation to parents or friends to visit the school, a letter to an absent classmate, a letter to the same grade of another school, an invitation to a class party, an invitation to go on a nature or bird walk, a note of thanks for some favor as, the gift of a flower or book, words necessary to play the game of "Deaf and Dumb," words necessary to play the puzzle game. If a book is used these words may be used in the exercises suggested above. This may be done without reference to the order of words suggested in the book.

Third Grade. The work of the second grade is continued except that it will be more extensive; words for short compositions on nature study topics; words for written reproductions of simple stories; if a book is used the words should be woven into the exercises suggested above.

LESSON PLANS

The central problem in the teaching of spelling is to teach the child to write the letters of the word in a certain order and to do this automatically so that the mind may be entirely given to the thought. Learning to spell is simply a matter of forming a habit—the habit of using letters in a certain order.

In spelling, as in other habit-forming lessons, there must be intelligently conducted drill if the child acquires the ability to write the word when he needs it without stopping to think how it is spelled.

The principles or steps in the lesson will be (1) a motive for learning the words; (2) a clear idea of correct response; (3) attentive repetition of the response; (4) no exceptions; (5) frequent review of the words; and (6) application of the habit of response to practical problems.

1. **Motive.** The teacher should see, first of all, that the child is interested in learning to spell, and that the conditions are such that he has a motive for the study of the word. The stronger the motive or the incentive the more close will be the attention and the sooner will the desired result be obtained.

Much of the drill work in spelling is barren of result because the child sees neither the need nor the significance of learning to spell. So one of the problems of the teacher is to motivate the work properly for him.

The motive should be strong enough and attractive enough to appeal to the child and to secure his attention for a considerable length of time. There are various sources for motivation. The most important is the realization of the practical need for the ability to spell the words; for instance, so that he can write letters, stories,

compositions; play the game of "Deaf and Dumb," where he must write instead of talk; or fill in words of puzzle sentences. It is suggested that if the child is interested in his written work he will want to learn to spell the words which are necessary to this written expression. And if he fully realizes that he is to be judged by his ability to write correctly, he will realize that when he cannot spell a word he ought to learn it at once.

Variety in procedure is one of the best ways to attract and hold the attention and interest of the child. A promised spelling match will often secure concentrated attention and effort on the part of the class. A pupil will often work to improve his own record. The pupil's record may be kept on a score card and instantly checked up.

Another means for securing the interest and attention is that of emulation, or the desire to excel others. This is the lowest type of all the motives, with the possible exception of the fear of punishment, and should be used only very occasionally.

2. **Clear Idea of Response.** In this as in other habit-forming lessons, the first step is to help the child to form a clear idea of the thing to be done. In order to make the spelling of the word easy and natural, the teacher should see that he hears the word correctly and that he has a clear, accurate picture of it. He should be encouraged to look again and again at the word until its image becomes firmly fixed. Many errors in spelling are due to faulty pronunciation and faulty visualization of the word. The ability to spell includes more than the power to reproduce the letters of a word in a given order. It involves the ability to pronounce the word and to give its meaning. A word is never well taught unless

the teacher makes sure that the child has its meaning, its pronunciation, and its spelling.

In a discussion of the modern method of conducting a spelling lesson, Suzzallo¹ says, "The teacher spends his time in carefully presenting a few words, rather than in examining the child's ability in many. New work is a matter of class study, where words are presented with unusual artfulness in order to suggest their meaning naturally through circumstance or context. Every effort is made to safeguard the child against a wrong first impression and an incorrect learning of the word. If a home lesson is assigned, it is not a mere blocking out of a number of words to be learned; the assignment is an exercise in which the teacher uses all his foresight in anticipating the various kinds of trouble the child will meet, focusing the attention on special difficulties and suggesting modes of self-instruction. The modern spelling exercise may test the child's knowledge, but its primary function is to teach rather than to examine."

3. **Attentive Repetition.** After the child has a proper motive, a clear idea of what is to be done, the teacher should plan how to further the multiplicity of associations necessary for the learning of the word. It has been found that the most economical method of learning to spell a word requires that the entire attention be given while the letters of the word are repeated and written a number of times. Multiplicity of association is brought about through writing the word on the board, in the air, on paper, spelling it aloud, spelling it under the breath, etc. By this plan the eye sees, the ear hears, the voice reproduces, and the hand copies the word.

If each word is to be thus carefully studied it will of

¹The Teaching of Spelling.

necessity have to be a supervised study, for undirected effort will result in random effort. And furthermore, all the words of a list will not require the same amount of study. Some of them can probably be spelled without many repetitions, while others will require the most careful study. It is the work of the teacher to train the children to recognize the words that will present difficulties and to train them to overcome these difficulties.

4. No Exceptions. As suggested in the above quotation the teacher tries in every way to get rid of error by anticipating and preventing it through supervised study. The efficient teacher will train her class to avoid making errors in so far as possible. The trial-and-error method belongs to the old order of teaching spelling. The teacher of the present day realizes that if the child makes a mistake, her task is much greater than it was, for this wrong way of spelling the word must be overcome before the right habit can be established. The child should be trained never to write a word or to attempt to write it unless he is sure he knows how to spell it. In case of error, a new chain of associations must be formed beginning with the pronunciation and leading through the meaning to the correct, written form, leaving the incorrect associations to fade away.

5. Reviews. In spelling as in the other drill lessons, opportunity should be given for frequent reviews, for when the teacher has first succeeded in securing the desired result, she has only begun the process. If the child is to make the correct spelling of a word a permanent part of his mental equipment, he must write or spell the word several times during the next few days, write it over and over again the next week, the next month, the next year. The time will come when the

word is indelibly fixed in the child's mind, and then, and only then, can the teacher discontinue the drill on the word. If it is necessary for a child to learn to spell a word, it is not only necessary for him to be able to spell it when it is assigned as a new word, but it is necessary that he be able to spell it ever afterward, wherever he may encounter it.

Testing. In the old method of teaching spelling, the testing occupied the larger part of the recitation period, but in the modern method it is only a step in the lesson. As teachers are coming more and more to the teaching of the words which the child needs in his daily written work, it is possible to test his ability to spell in sentences. However, the only test is the spontaneous written expression of the child.

6. *Application.* If spelling is to continue to appeal to the child as a practical subject, the teacher should plan many exercises for its application. Not only does this make the subject vital for him but it helps to fix the words in mind. It is also the truest test of his efficiency in spelling.

One of the teacher's problems will be to provide enough natural opportunities for this application. These may be found in letters written to friends, absent playmates, or to children in another school; in compositions based on nature study topics; the written reproduction of the stories which are to be read or sent to parents or friends, in the game of "Deaf and Dumb," and in puzzle sentences.

Devices. In spelling, a list of words known as a black list will prove helpful. This list is kept in a conspicuous place on the board. Any word which is misspelled by a number of children is placed on this list.

They are encouraged to eliminate words from this list as rapidly as possible.

In addition each child should have a personal list which he may keep in a small blank book. To this list should be added any word which he misses or which he has to have spelled for him. He should be tested frequently on this list.

Outline of Steps in a Lesson. The following outline for conducting the spelling lesson should contain much that is helpful in way of suggestions. This outline may be modified or added to according to the needs of the class. The varying difficulty of the words should also affect the outline.

The change wrought in the teaching of spelling has had its effect on the number of words assigned each day. It is the general consensus of opinion that two to four new words a lesson should be assigned in the primary grades.

I. *Motive:* The child's interest is aroused in learning to write the word.

II. *Teaching Method* (to be applied to each individual word) :

a. The pronunciation and meaning of the word is developed in connection with the child's motive for learning to write it.

b. Write the word slowly on the board, the class following visually the formation of the letters. Write the word compactly.

c. Divide the word into syllables, orally, and then write it in syllables. Call on individuals to pronounce and then spell orally by syllables. Pronounce by syllables only when necessary to make it clear.

d. Have pupils to point out familiar parts of the

word such as phonograms or smaller words included in it. Then have them point out the new or unfamiliar parts. Lead the class to study the word to see which are the difficult parts. Have the pupils close the eyes and visualize the different parts.

e. Have the pupils write the word in the air as you write it on the board. Then have them write it on the board or on paper. Have them pronounce and softly spell the word as they write. This should be under the breath.

f. Allow the class a moment in which to look at the word again, then have them close their eyes and visualize it.

III. *Reviewing* (when drilling for impression) :

a. After the words of the new lesson have been taught as above, allow a few minutes for studying the whole list again, suggesting that each pupil emphasize the word or words which he thinks he does not know. The time should be limited so that each pupil will concentrate vigorously.

b. Call on pupils individually, and at times in concert, to spell the entire list as dictated without looking at the board. Refer them to the board at once if they hesitate.

IV. *Testing* :

a. Erase all the words from the board and dictate them to the class for a written test, using each in a sentence. It will be well to have the entire sentence written if it contains no new words. If it is possible to make a sensible sentence, bring in the words which the children need for review. Insist that no child attempt to write a word unless he is sure he can spell it.

b. Dictate review words to class.

c. To check the work, write the words or sentences on

the board and have each child compare his work with the model.

d. Words that are misspelled are placed on the black list or on the individual lists.

V. *Assignment.* Only review words.

ILLUSTRATIVE LESSON

Second or Third Grades

I. *Topic:* bird, red, robin.

II. *Teacher's Motive:* (1) To give the child a motive for learning to spell *bird, red, robin*. (2) To give him a clear picture of each word and to help him to reproduce it in writing.

III. *Child's Motive:* (1) To learn to write *bird, red*, and *robin* so that he may fill out the puzzle sentence.

IV. *Subject-matter and Procedure:*

SUBJECT-MATTER

PROCEDURE

The teacher should give about two minutes to some of the rhythmic movements used in writing. Throughout the lesson she should insist upon correct position, form, and movement.

As I came to school I saw a (bird). It ~~had~~ a (red) breast. It was a (robin).

"Boys and girls, do you ever try to fill in puzzle sentences? I have a puzzle here and I want to see if you can guess what the words are which I have left out." The children are allowed to study and discuss the sentences until the correct words are found. "Would you like to write these sentences and fill in the blank? If you do that, we shall have to learn to write *bird, red*, and *robin*; then I will let you fill out the puzzle and carry it home to your mother."

"Watch me write *bird* on the board. Sound it for me. How many sounds? Which two letters make one sound? Have we had this sound before? Let us spell *bird*. Pronounce each letter as I point at it." The teacher has it spelled twice in concert. "This time I want you to spell it as I make each letter on the board." She has it spelled by several children, writing it each time. In this way the children are forming a vivid image of the word. "Now you write the word in the air as I write it on the board, naming the letters as we make them." She has it written twice. She writes in large script. "Each of you take your pencil and write *bird*, spelling it softly as you write.

bird
robin
bird

"Now turn your back and see if you can spell it without looking at the board. If you are not sure, look at the board immediately, for we do not want a single mistake made.

"Turn your paper over and let us see if you can write *bird* without looking at the board. If you are not sure, look at the board, as we do not want any one to make a mistake."

Red should be studied in a similar way.

"What kind of bird did I see? Watch me write *robin*. How many syllables has *robin*? Let me write it, dividing it into syllables. Pronounce it by syllables. Do you see a familiar part to this word? Yes, we have had *in*. What does that leave? Well, *rob* will be easy to learn, won't

it?" *Robin* is studied in a way similar to that used in studying *bird*.

"Which of these words do you think will be the hardest? I want you to study this list for a few minutes, studying the hardest word the longest time, and then I will see if you can write the answer to the puzzle." She gives the children a few minutes to study. After this she takes up the practice papers, erases the words from the board, and has the children copy the sentences, filling in the blanks. If the teacher has more than one grade this may be the seat-work period. She should impress on the class that she does not want them to try to write a word unless they are sure of it. She should also impress the fact that the only honorable thing to do in a case like this is to ask the teacher so that she may help him to learn the word. It would be a terrible disgrace to copy from another child's paper.

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CHAPTER XVIII

HISTORY, NATURE STUDY, AND GEOGRAPHY

AIM

History and Geography. The history and geography of the primary grades are studies of the home life, the community, and all forms of allied life. Their purpose is to socialize the child by leading him to an intelligent appreciation of his surroundings and of his part in this life. He is by nature wholly selfish and sees the world only in relation to himself. If he is conscious of the service rendered him, he takes it as a matter of course and gives nothing in return.

Nature Study and Geography. Not only should the child be led to recognize the interdependence of man upon man but he should see man's dependence for sustenance and enjoyment upon other forms of life. In these studies he should be led to see how the earth is adapted to man's habitation and is therefore fitted by a wise creator to be his home.

Nature Study should aim to develop in the child an intelligent and sympathetic interest in the world about him to the end that he can better adjust himself to his environment. He should have more than a mere knowledge of things; he should have an abiding interest in all forms of nature; he should have a healthy curiosity to

know the names of everything he sees; he should have such a constantly growing appreciation of natural beauty in all its forms that it will lead him to select and create beautiful surroundings; he should have such a growing realization of the economic importance of nature that it will lead him to protect and control it for the good of mankind; he should have a permanent attitude of investigation concerning the adaptation of form to function, the relation of nature to the needs of man, and the problem of its control; he should carry into his home, in a material and practical way, many things gleaned from the study of nature in the school.

SUBJECT-MATTER

History and Geography. The first step is to bring the child into intelligent connection with his surroundings by a study of the home and community life. The community life is approached through a study of the work of the father, the sources of food, clothing, shelter, and other provisions for home needs and comforts.

Through these studies the child should be trained to see that human progress has been made possible by division of labor and by coöperation. This idea may be developed, also, through the work of the home and through school life and games. He should be led to discover the universality of the family idea by a study of homes in other lands.

Through these studies the child should slowly awaken to the mutual interdependence of the different members of the human family. He should awaken to the realization that no man can live unto himself but that the truest life must be one of service.

Nature Study and Geography. The experience and needs of the child form the basis for the selection of the material for the study of nature. The work should begin with a study of the immediate environment, and as his horizon gradually broadens and his interests begin to rest on more complex experiences, the teacher may go farther afield for subject-matter. He should recognize the interdependence of different sections of the country and of different countries one upon the other.

He should study the home, food, physical characteristics, and habits of the animals and plants which furnish him food, clothing, shelter, and other home comforts. In other words, he should be led to recognize the close relation between all forms of life and of the activities in the world.

COURSE OF STUDY

The following outlines are given as suggestions for the correlation which could be made in history, geography, nature study, and hand work. The hand work suggested will be developed in Chapter XX.

These outlines should not be completed in regular order, topic by topic, but should be handled according to seasons. In the fall, "Family and Community Pleasures" should be discussed from the standpoint of the pleasures in the fall. In connection with the fall pleasures all the correlation pertaining to fall work should be carried out. In the winter, the teacher should revert to this same topic and discuss winter pleasures together with the allied topics. In the spring the same topic will again be taken up. Each topic should be treated in this way if it contains anything peculiar to a season.

First Grade

Aim of Course: "To socialize the child."

I. The Home and Community Life.

A. The Family. Leading thought, "A real home is possible only when the love of each member is shown through coöperation, helpfulness, kindness, and obedience."

1. *Members:* Father, mother, children.

2. *Occupations:*

a. Mother: washing, ironing, sweeping, keeping the house tidy, mending, sewing, baking, canning, care of children, combing hair, washing faces, etc. The idea of the mother's loving care of the family and the need for lightening her work in every way possible should be stressed.

b. Father: about the house, as making of fires, carrying in of fuel and water, care of the garden, cows, horse. Each child should be allowed to tell what his father does to earn money for the family.

c. Children: helping father and mother, by carrying in the fuel and water, running the errands, washing the dishes, taking care of the baby, cleaning the yard, making the flower beds, gathering the flowers.

3. *Love and Politeness of the Child:*

a. To mother and father: willing and cheerful obedience; promptness to meals; taking care of toys; helping in the daily tasks; practicing nice table manners; saying "Please" and "Excuse me"; avoiding quarrels; warming father's and mother's slippers; bringing father and mother flowers, fruit, and little gifts; good behavior in school; well prepared lessons.

b. To brothers and sisters, dividing treats with them,

giving way to them in games, allowing them to play with personal toys, saying "Please, Thank you, Excuse me."

4. *Helps*: Pictures of different equipment which is used in carrying on the work of the home; for instance different kinds of washing machines, irons, stoves, kitchen cabinets, bread mixers, sewing machines, dish washers. The children may make a scrap book or poster showing the different things their mothers could use in their work.

B. The Family and the Community

Aim: "To teach the dependence of the family on the community for its existence. The need for coöperation and for each to do his part."

C. **Family and Community Pleasures**: Leading thought, "The dependence of man upon man and on nature for his pleasures. Each child has a part in making others happy."

Sources: car rides, drives, visits, visitors, picnics, parties, pets, flowers, games, toys, stories, making scrap books, celebration of special days, and observing birds and insects.

1. *Car rides, drives, picnics, visits, and visitors*: Leading thought, "Need of courtesy, kindness, and unselfishness on the part of those participating."

Different modes of travel; need for parks.

Helps: pictures, booklets, sand-table.

2. *Parties*: Leading thought, "Real pleasure depends upon courtesy, thoughtfulness, and unselfishness."

How to make the home attractive, games to play, refreshments, dress.

3. *Animal Life*: Leading thought, "How animals, birds, and insects add to the child's pleasure. His part in caring for them."

a. Pets; care, food, habits, physical characteristics, means of protection from enemy, natural home.

b. Birds: Teach the child to recognize a few of the most common birds, their food, habits, home, migration, and return.

c. Insect Life: Observe any insect to be found in the community, where seen, what happens as the weather grows colder; in the spring observe cocoons; note the reappearance of many forms of insect life.

Devices: Natural objects and pictures.

4. *Flowers*: Leading thought, "How flowers add to the child's pleasure by making the world more beautiful. How he may use flowers to add to the pleasure of others."

Teach the child to recognize the most common fall and spring flowers in both garden and field; note the seeding of flowers; collect seeds for spring planting; study the whole plant to discover the use of the roots, stem, and leaves; note the effect of frost; gather flowers for beautifying the schoolroom, home, or a sick room; plant a hyacinth or narcissus bulb in time for it to bloom for Easter. This is to be taken to mother or a sick friend.

Devices: Natural objects and colored pictures.

5. *Toys, Games, and Sports*: Leading thought, "Need for coöperation, fairness, and unselfishness.

a. Toys: Kind, care.

b. Games and sports: Kind, selection of game depends upon weather, season, length of days, kind best adapted to warm weather, cold weather, rainy days, etc. In this connection study rain, snow, long and short days. In the study of snow, which should be developed when there is snow on the ground, study the Eskimos, who

are known as "the Little Children of the Snow." Study their homes, home life, dress, food, games; make an Eskimo sand-table.

Devices: pictures, sand-tables, posters, booklets.

6. *Special Days:*

a. *Thanksgiving:* Leading thought, "Gratitude to God for the preservation of life."

Story of the first Thanksgiving in this country; Colonial homes, home life, dress; study of Indian homes, home life, food, and occupation; study of common fruits, vegetables, grains, and turkey.

Devices: Use pictures extensively; collect Indian and Colonial relics; dramatize the Thanksgiving story using very simple costumes; duplicate the scene on the sand-table.

b. *Christmas:* Leading thought, "God's great love for man."

Story of the birth of Christ; Christmas in America, Japan, France, Italy, and England. Study of the evergreens, the camel, the common fruits, and the vegetables used at Christmas.

Devices: Pictures, sand-table, dramatization of Christmas story and of Christmas in other lands using simple costumes.

c. *Washington's Birthday:* Story of Washington's boyhood, study of home life and of child life of Colonial days; story of the first flag.

Devices: Pictures, curios, simple dramatization, booklets, and sand-tables.

d. *Easter:* Leading thought, "The awakening of new life."

Biblical story of first Easter; study of egg, chicken, rabbit, lily; why these are used.

Devices: Pictures, real objects.

II. Supplying Material Needs in the Home and Community.

Leading thought, "Man's dependence on man and on nature for food and sustenance. Need and value of coöperation in their production and preparation."

1. *Food*: What the child eats; teach him to recognize the common fruits and vegetables; trace the common fruits, vegetables, and grains to their sources; brief study of farm life, grocery store, dairy, bakery, mill, ice factory, meat shop; study the common farm animals as to names, food, habits, physical characteristics, and value to farmer; a study of the weather conditions, heat, cold, rain, frost, etc.; have simple school gardens; encourage home gardens; study of germination; preparation of food for eating; simple reasons for cleanliness in cooking; preservation of food; cooking, refrigeration, canning, drying.

Devices: Natural objects, exhibits, pictures, sand-tables, excursion to points of interest, booklets, and posters.

2. *Clothing*:

a. Garments: Material; where produced; study of cotton plant, sheep, silkworm and cocoon, and flax plant; choosing clothing suitable to season; care of clothing.

b. Shoes: Material; where produced; study of animals from which leather is made; rubber; study of shoemaker and shoe store.

Devices: Natural objects, exhibits, pictures, excursions to points of interest.

3. *Shelter*:

a. Use: the home is the place of abode of the family; types of homes; location depends on water, drainage,

sunlight, shade, beauty of surroundings, convenience to church, school, and business.

b. Materials: brick, wood, stone; the work of the architect, brickmason, carpenter, plasterer, painter, paper-hanger. Value of these workmen to a community; need for coöperation in building a home; study of wood, trees; learn to recognize trees by leaves and bark, note the budding of trees.

c. Furnishings: Furniture, use, and care of each room.

d. Light and heat: Different methods of heating and lighting; study source of coal, work of coal miners.

e. Beautifying the home: pictures, rugs, flowers, good selection of colors; lawn, grass, flower beds; cleanliness.

f. Study of types of shelter of Indians, of people of colonial days, of Japanese, and of Eskimos.

Devices: Pictures of different styles of homes, furniture, tools, ways of heating and lighting, exhibits; sand-tables; excursions to factories, stores, forests, mines, etc.

III. Other People Who Serve Us:

1. *The Doctor*: Value of health; contagious and germ diseases; protection from disease by developing the physical body, by means of fresh air, pure water, personal cleanliness, sanitation in home, thorough mastication of food; value of a good doctor's service; work of nurse; value of a hospital.

2. *The Teacher*: Need for schools; the child's part in the school life; opportunities for helpfulness and kindness to teacher and playmates.

3. *The Preacher*: Service to the minister; value of the Sunday School and churches to a community; the

child's part in the services of the Sunday School and Church; observance of the Sabbath.

4. *The Mail Carrier*: What he does for the community; mode of travel; how to make his work happier; the use of newspapers and magazines; a visit to the printing office.

5. If the children live in a city study the work of the policeman, fireman, expressman, newsboy, drayman, school janitor, street cleaner, and health officer.

Second Grade

The work of the first grade is used as a basis for a more extensive study of home and community life, and their relation to the other parts of the country. Primitive life, as represented by the Tree-dwellers and Cave-men is studied and compared with a later period of life as represented by the Indian life of Colonial days; then comes the study of colonial life.

In the first grade the aim has been to awaken the child to a knowledge of his interdependence on man and nature for his existence, and to the fact that he has a service to render to the community. His sympathies have been aroused through the simple study of the child life of the Japanese, of the Eskimos, and of the Colonist. In the second grade his sympathies are expanded and strengthened as he is led to see the progress of men toward a life of greater service. He is led to realize how coöperation, invention, and education lighten the work of the world and make it a happier place in which to live.

Modern and Primitive Days

Aim "To socialize the child."

A. Shelter: Aim: "To help the child to appreciate the contrast and development of means of shelter."

1. *Present Day:* See the first grade outline. This should be reviewed and extended.

2. *Primitive Days:*

a. Tree dwellers: location of house, reason for locating, type, material, workmen, tools, rooms, use, furnishing, light, heat, water supply.

b. Cave dwellers: location of house, reason for locating, type, furnishings, light, heat.

3. *People of Colonial Days:*

a. Indians: Reasons for location of home, types of house, materials, workmen, tools, rooms, furnishings, light, heat, water supply.

b. Colonists: Reasons for location of homes, type of houses. material, workmen, tools, rooms, furnishings, light, heat, water supply.

Devices: Pictures, sand-table, scrap-books, posters.

4. In connection with the study of materials and furniture study kinds of wood, trace each to its source; study of lumber camps, mills, factories. Teach the child to recognize the oak, maple, pine, chestnut, poplar; study brick, concrete, granite, marble, sandstone, slate. In connection with the heating of modern homes teach something of the life story of coal, study of coal mines, transportation of coal, elementary study of gas, kerosene, and electricity; study weather as a cause of shelter; change in temperature, reading the thermometer; study of moon, winds.

B. People: Aim: "To help the child see the cause for the lightening of labor; the opportunity for education and mental and physical development."

1. *Present Day.* See first grade outline for the

family. Review and extend. To the special days add Columbus Day; Lincoln's Birthday.

2. *Primitive Days:*

- a. Tree-dwellers: Members of the family; personal appearance, size, color, disposition, occupation of women, children, men; education; pleasure.
- b. Cave-men: Members of family; personal appearance, size, color, disposition; occupation of men, women, children; education; pleasures.

3. *Colonial Days:*

- a. Indians: Members of a family; occupation of squaws, children, braves; education, pleasures.
- b. Colonists: Members of a family, occupation of mother, children, father; education; pleasures.

Devices: Pictures, sand-table, scrap-book.

4. *Pleasures of Present Day* (extension of first-grade course): a. In connection with Thanksgiving, trace vegetables to their source, study plant with reference to root, stem, leaf, flowers, fruit, or seed.

- b. Christmas: Study of evergreen trees, cedar, pine, spruce, fir, holly.

- c. Easter: Hens and chickens; have a hen and chicks at school; care of hen, food, habits, time required for hatching eggs, incubator, enemies of hen and chickens; visit an incubator.

- d. Flowers: Review those studied in the first grade; teach the child to identify clover, gentian, sweet alyssum, mignonette, petunia, verbena, phlox, cosmos, snap-dragon, bachelor-button, wild lily of the valley, dogwood, azalea, and others. Teach how the life of the plant is preserved, developing the idea of food-making and food-storage.

e. Insects: Study the insects that work about the flowers.

f. Birds: Teach the child to identify blue-jay, cardinal, oriole, catbird, bluebird, and other common birds; teach something of the habits, food, and physical characteristics of these birds; note the migration and return of birds; organize an Audubon society for this work.

Devices: Natural objects, excursions, and pictures.

C. **Food:** Aim: "To help the child to see how animals and plants work for men. Help him to see how coöperation, invention, and helpfulness lighten labor."

1. *Present Day:*

Kinds of food; visit a farm and truck gardens; teach the farm implements and machinery; visit mills, market; preparation of food; drying, canning, refrigeration; preservation of potatoes, cabbage, etc.; visit canning factory, ice factory, cold-storage plant, etc.; sources of heat for cooking; coal stove, wood stove, kerosene stove, acetylene gas, natural gas, electrical stove, fireless cooker.

2. *Primitive Days:*

a. Tree-dwellers: kind of food, source, preparation, cooking, implements, utensils, source of heat.

b. Cave-men: kind of food, source, preparation, cooking, implements, utensils, source of heat.

3. *Colonial Days:*

a. Indians: kind of food, preparation, cooking, implements, utensils, source of heat.

b. Colonists: kind of food, preparation, cooking, implements, utensils, source of heat.

Devices: Natural objects, pictures, excursions.

4. a. Plants: Study the life story of many articles of food such as vegetables and grains; study the plants as to parts and characteristics; watch the plants' prepa-

ration for winter; collect seeds of different kinds; study natural provisions for distribution of seeds; in spring study germination of seeds; make experiments to determine the effect of light, heat, and moisture, and of the kind of soil best suited to plants; make a school garden as a model for a home garden; encourage each child to plant a home garden; have school exhibits of vegetables and flowers grown.

b. Fruits: kinds, source; study of trees and plants which produce fruit; study buds and blooms; watch to see what becomes of each part of the flower; note the insects about the trees; study the methods of packing and shipping, and preservation of food.

c. Animals: kind used for food; physical characteristics, habits, foods, care, natural home, use to man; preparation for winter.

d. Garden foes: cutworms, lice, caterpillars.

Garden friends: toads, earthworms, bees, birds.

e. Weather: work of the sun: furnishes light, heat; effect of rain and droughts on food supply, how rain gets into clouds, reading of the thermometer, value of the thermometer to gardener; snow: where it comes from, how it gets into the clouds, condition under which snow falls; catch flakes and examine crystals; use of snow to plants.

Devices: natural objects, pictures, excursions, experiments.

D. **Travel and Transportation:** Leading thought, "How necessity leads to invention."

1. *Present Day:* Train, steamboat, ship, electric car, auto, air planes, bicycle, motor cycle, wagon, horseback, walking.

2. *Primitive Days*: Carrying; walking, footgear and accessories; inventions to make this work easier.

3. *Colonial Days*:

a. Indians: carrying, walking, canoeing.

b. Colonists: walking, carrying, coasting, horseback riding.

Devices: Pictures, paper construction, natural objects.

E. *Clothing*:

1. *Present Day*: kinds, use, material, source, process of making cloth; visit to mill; shoes: material, source, process of making.

2. *Primitive Days*: kind of clothing, use, material, source, preparation of clothing, covering for feet.

3. *Colonial Days*:

a. Indians: kind, use, material, source, process of making, covering for feet.

b. Colonists: material, source, process of making, covering for feet.

4. a. Plants: Study life story of plants from which cloth is made, as flax, cotton, mulberry tree; study silk-worm; study of rubber.

b. Animals: Animals which furnish materials for clothing; characteristics, habits, home food, use to man; animals' preparation for winter; special study of wool.

F. *Means of Protection*:

1. *Present Day*: policeman, sheriff, law, prisons, guns, fire equipment, fireman, health boards, doctor, hospital, nurse.

2. *Primitive Days*: Bows and arrows, flint spear, fire, location of home.

G. *Fire*: Origin; lightning, volcanoes, falling rock, friction of certain woods, traditions of origin of fire.

1. Uses:
 - a. Present Day: light, drying clothes, cooking, moving of trains, cars, automobiles, machinery, etc.
 - b. Primitive Days: heat, cooking, protection from wild animals, insects, serpents, etc.
2. Dangers from fire: burning buildings, injury to people, injury to forests and to prairies.
3. Protection from fire: fireman, fire equipment, safety matches, fire escapes, doors opening outward, protection of all sources of fire, fire drills.

Third Grade

In this grade, the child is brought into closer touch with the life of colonial days and of other lands. His work is beginning to have a real historical aspect. He makes a closer study of some of the events of colonial history which have been touched on in the second grade. He is led to see how others have suffered hardship that there might be peace and liberty. His sympathies are deepened and broadened by a study of life in other lands. The great war of nations is made a basis for this study.

This work is developed largely by stories, relics, curios, pictures, and the sand-table. The child is encouraged to dramatize the different scenes, using very simple costumes and stage settings.

A. **The Early Settlements:**

1. Review briefly the Colonial life developed in the first and second grades.
2. *The Plymouth Settlement:*
 - a. Cause of emigration from England
 - b. Life in Holland
 - c. Voyage across the ocean

- d. Early experiences
 - (1) shelter
 - (2) food
 - (3) clothing
 - (4) occupations and pleasures
 - (5) education
 - (6) dangers and protections
 - (7) methods of travel and transportation

3. *The Virginia Settlement:*

- a. Causes which led to settlement

- b. Early experiences

- (1) shelter
 - (2) food
 - (3) clothing
 - (4) occupations and pleasures
 - (5) education
 - (6) dangers and protections
 - (7) methods of travel and transportation

4. *Present Day Life:* Compare present day life with the life of the Colonists. Lead the child to discover the causes for the progress of the race.

Devices: Pictures, sand-table, relics, dramatization.

5. *Life in Holland:*

- a. Location and description
- b. Homes: types, material, workmen's tools, furnishings, lights, heat, water supply
- c. People: appearance, dress, occupation
- d. Food: kind, source, preparation, cooking
- e. Education
- f. Cities: buildings, streets, cars, light, water supply, etc.
- g. Farm life
- h. Peculiar customs

- i. Holidays and pleasures
- j. Transportation and travel

Compare with America as to natural characteristics, people, homes, food, transportation, travel, cities, holidays, amusements, etc.

6. In connection with the study of Holland, study farm life; cows, dairying, cheese making, dogs, geese, and ducks, poultry, fruits, vegetables, fish, weather.

a. *Farm*: parts, crops, other products, animals, care of crops and animals, machinery and tools, activities on the farm. Discussion of crops and products.

(1) *Stock*: value to farmer, to others, care of stock, feed, cost and care of food, disposal of surplus stock.

(2) *Grains*: kinds, value, cultivation and harvest, tools and machinery, shipment and transportation to market.

b. *Truck Garden*: variety of things raised; location of garden, soil, cultivation, tools, garden friends: earthworms, birds, bees; garden foes: cutworms, lice, potato bugs, caterpillars, scales; make a study of bees, potatoes, radishes, strawberries; have school garden; encourage home gardens; study life story of toads and frogs.

c. *The Orchard*: kind of fruit trees; foes: scale, insects; friends: birds; care of trees; harvesting of crops; preparation for market; transportation to market; value as food.

d. *Dairying*: value of cow to man; products: milk, cream, butter, cheese; other products: hide, hoofs, bones, suet, etc.; care of cow, necessary cleanliness; visit a dairy, care of cows and stables; cleansing of bottles; cooling of milk; use of separator; bottling; delivery.

e. *Poultry*: value to man; kinds; value of different kinds; care; food; selection of food; foes; extermina-

tion of foes; special study of geese, ducks, chickens, and turkeys; methods of marketing, dressing, preparation for shipment; visit a poultry plant if possible.

f. *Bulbs*: kinds, note parts and use of each; plant

- bulbs in fall and bury for six or eight weeks; bring to light and keep a record of care and development.

g. *Weather*: changes in temperature, and weather conditions; effect on crops; reading of thermometer; value of thermometer to fruit grower and truck gardener; review of the work of rain and snow given in second grade.

h. *Dog* (develop from use of dog carts in Holland): use to man; structure; habits; adaption; breeds; use of different breeds; domestication of dog; wild cousins of dogs: wolf, hyena.

Devices: natural objects, excursions, pictures, sand-table, posters, scrap-book, post-cards.

B. The War of Nations:

1. Where fought
2. Countries participating
3. Implements of war
4. Life in Germany, France, and Belgium from a child's point of view. Supplementary study —Russia, Italy

a. *Germany*:

- (1) location and description
- (2) homes, type of house, material, workman, tools, light and heat, furnishings, water supply
- (3) people: appearance, dress, occupation
- (4) pleasures and amusements
- (5) food: kind, source, preparation, cooking

- (6) education
- (7) holidays
- (8) customs
- (9) cities: buildings, streets, care, health board, etc.

- (10) farm life

- (11) transportation and travel

- (12) comparison with America as to points given

b. *France:*

- (1) location and description

- (2) homes, type of house, material, workman, tools, light and heat, furnishings, water supply

- (3) people: appearance, dress, occupation

- (4) pleasures and amusements

- (5) food: kind, source, preparation, cooking

- (6) education

- (7) customs

- (8) holidays

- (9) cities: buildings, streets, care, health board

- (10) farm life

- (11) transportation and travel

- (12) comparison with America as to points given

c. *Belgium:*

- (1) location and description

- (2) homes, type of house, material, workman, tools, light and heat, furnishings, water supply

- (3) people: appearance, dress, occupation

- (4) pleasures and amusements

- (5) food: kind, source, preparation, cooking

- (6) education
- (7) customs
- (8) holidays
- (9) cities : buildings, streets, care, health board
- (10) farm life
- (11) transportation and travel
- (12) comparison with America as to points given

Devices: pictures, sand-tables, dramatization, souvenirs, post-cards, scrap-books, posters.

- (13) study of vegetables: cabbage, potatoes, grains, buckwheat, rye; fruits: apples, grapes; animals: hogs, cows, horses; review or teach farm life; compare with farm life of countries studied
- d. *Japan*: The child is always interested in Japan because of the rice, tea, fans, umbrellas, kites, and other Japanese products which they see.
 - (1) location and description
 - (2) homes, type of house, material, workman, tools, light and heat, furnishings, water supply
 - (3) people: appearance, dress, occupation
 - (4) pleasures and amusements
 - (5) food: kind, source, preparation, cooking
 - (6) education
 - (7) customs
 - (8) holidays
 - (9) cities : buildings, streets, care, health board
 - (10) farm life
 - (11) transportation and travel
 - (12) comparison with America as to points given
 - (13) study of teas and rice, as articles of food.

trees: cherry, plum; flowers: chrysanthemum, iris, azalea, lotus; insects: silk-worm, butterfly, moth

Devices: natural objects and pictures.

C. Heroes of History:

Columbus	Joseph
Washington	Isaac
Lincoln	Moses
Ulysses	Aaron
Abraham	David
Alexander the Great	

CHAPTER XIX

HISTORY, NATURE STUDY, AND GEOGRAPHY—(Continued)

METHOD

In these studies of history, geography, and nature study, there should be the actual observation of the thing studied, whenever practicable. When feasible, the material should be brought to the schoolroom. A school-made museum will form a very interesting part of this work. When it is not practicable to bring the material to the schoolroom excursions may be made to points of interest. When neither of these is possible much may be made clear through the use of pictures. The teacher and the child should keep a close watch on all papers and magazines for pictures of interest. These pictures may be made into scrap-books or may be exhibited on a bulletin board. Later the pictures may be placed in boxes or envelopes and put away for future reference.

The stereoscope is a valuable asset in the teaching of history, geography, and nature study. With the exception of the motion picture, the stereoscopic picture is possibly the next best thing to the actual object. It may be procured very cheaply from certain school-supply houses. The largest and best assortment of pictures is furnished by the Underwood and Underwood Company, New York.

The sand-table is another valuable asset in this work.

Here the child may gain some idea of the life in other parts of his own country and of that in foreign lands. The use of the sand-table will be discussed more fully in Chapter XX.

LESSON PLANS

The lessons in history, geography, and nature study are appreciation lessons the aims of which are to awaken and to develop a love for and appreciation of the beautiful in nature and in the relationship existing in all forms of life.

The first step in awakening appreciation is a true appreciation on the part of the teacher. It is suggested that she become a student of nature and of social relationships. She should utilize every opportunity for first-hand observation, and in addition books, pictures, and specimens should be used. Literature and art offer a splendid opportunity for awakening this appreciation.

The attitude of the child at the beginning of the lesson is very important. An appreciation lesson may be entirely spoiled if his attitude is the reverse to that of appreciation. Should he be cross and tired or ill the teacher will find great difficulty in obtaining the desired results. Again he may have gained erroneous ideas which will hinder the development of appreciation. Consequently, the step of preparation is rather an important one as it is through this step that the teacher strives to bring the child to a desirable attitude toward the lesson to be presented. Sincere appreciation is a matter of the emotions. It may be aroused through a story, a poem, a picture, a game, a bright little song, or by an apt question.

The next step in the lesson is the presentation of the new material. This may be most successfully done by

the use of the natural objects, by a picture, or by a specimen, or curio. The child should be allowed a few minutes for free observation, then by well selected questions, the attention should be directed to points of interest.

The lessons in social life and nature study offer excellent opportunity for the development of the reasoning power; for example, "Why is the color of the wild rabbit a means of protection?"

ILLUSTRATIVE LESSONS

First Grade

I. *Subject:* History or social life.

II. *Topic:* The work of the mother with special emphasis on laundering.

III. *Outline:*

1. Work of Mother

a. Washing

(1) need

(2) method

IV. *Teacher's Motive:* (1) To help the child to realize the many services his mother renders him because of her love for him. (2) To help him see that he can do much to make her work lighter. (3) To train him to think.

V. *Child's Motive:* (1) To tell of his mother's work and to discover what he may do to help her. (2) To find pictures of washing machines for posters.

VI. *Subject-matter and Procedure:*

SUBJECT-MATTER	PROCEDURE
1	1
Experiences preparatory to coming to school.	<i>Preparation:</i> "Who helped you get ready for school this morning?"

What did she do? Could you have helped mother by doing some of these things for yourself? Did mother do any other thing for you this morning? Could you have helped? What are some of the other things she will do for you today? What will she do for you tonight? How can you help her? Why does mother do so much for you? I wonder why you should want to help her?"

2

- a. Washing
 - (1) need
 - (2) method

2

Presentation: "Do you wear the same clothes to school every day? Why not? Who washes your clothes? How is the washing done? Is it hard work? What could you do to make the washing easier? Do you know of any easier ways to do washing? Why do you think mother should have a washing machine? I wonder who could find some pictures of washing machines? Bring all the pictures you can find and we will make posters showing the hard way and the easy way to wash. Do you suppose we could use these posters in a way that will help mother? What would you suggest? What do you suppose mother and father would think if you were to show them these posters?"

Second and Third Grades

- I. *Subject.* History.
- II. *Topic:* Shelter of Cave Men.

III. *Teacher's Motive*: (1) To give information about the shelter in one period of primitive people. (2) To help the child to see how education, invention, and coöperation have added to comfort and pleasure.

IV. *Lesson Outline*:

1. Description of shelter
2. Why used
3. Location
4. Furnishings
 - a. bed
 - b. carpet
 - c. bowls
5. Light and heat

V. *Child's Motive*: (1) To learn of the shelter of some of the primitive people. (2) To discover what has led to our type of shelter. (3) To prepare the story to tell to his mother.

VI. *Subject-matter and Procedure*:

This lesson follows the one on the shelter of modern days.

SUBJECT-MATTER

1. Description of shelter

PROCEDURE

"Do you suppose people always lived in houses like ours? Tell of those who did not. (Indians, Eskimos, Japanese.) Did you know that people once lived in caves? What do you think would be a good name for these people? Did you ever see a cave? Tell me what it is like." If children are not familiar with caves they should visit one if practicable, otherwise a demonstration should be made on the sand-table.

2. Why used

"Why do you suppose people wanted to live in caves? Let me tell you how they lived before and see if you can work out the reason. Their houses were made of brush in the rudest kind of way. When the ground was covered with ice and snow how do you suppose they felt? Could a cave let in as much cold as these brush huts? Then why would it make a better home?

"Would you have liked to live in a cave? Why or why not? What has helped us to have better houses?" (Education, invention, and coöperation.)

3. Location

"Is there any reason why one cave would be better than another? What are the things we think about when selecting a home? (Water, drainage, sunlight, shade, beauty of surroundings, convenience to school, church, and business.) Which of these do you think the cave men would have had to consider? (Water.) Why would the things we consider make our homes pleasanter than a cave?

4. Furnishings:

- a. bed
- b. carpet
- c. bowls

"What kind of furniture do you suppose the Cave-men had? What places did they have for getting furniture? (Nature.) What do you suppose they used for bed? (Branches of trees.) What kind of trees do you think would have the best branches? Let us go out and see if we can find a tree that would make a bed." The children are guided in the selection of an evergreen.

"What could they use for floor covering? Did any of you ever make a playhouse in the woods? What did you use as a carpet? (Moss and leaves.) Do you not think the Cave-men could have used moss and leaves? Do you suppose they had any dishes? What could they have made dishes of? How many of you have seen gourds? What do people make of them? What could the Cave-men have made of them? (Bowls.) What did they use for knives and forks? (Fingers.) Does our furniture make our homes nicer than the homes of the Cave-men? Why do we need more furniture than the Cave-men had? Why can we get more than the Cave-men could? (Results of education, invention, and coöperation.)

5. Light and heat

"How do you think they could see in the cave? How would you like to depend on a fire for your light? What else did the fire do besides furnish light? Do you suppose they could have lived in the cave in the summer? Why not? Could they have lived in the cave without fire? Why not? I do not know whether they went back to the brush huts in the summer or not, but I dare say they did. What kind of lights do we have? Are these better than fire-light? Why? Why do we need better lights? What has helped us to have better ones?" (Education, invention, and coöperation.)

Summary: "How many will be ready to tell mother about the home

of the Cave-men? What will you tell her?" The child should be helped to organize his knowledge.

First, Second, or Third Grades

I. *Subject:* Nature Study.

II. *Topic:* The Rabbit.

III. *Teacher's Motive:* (1) To help the child to discover the physical characteristics of the rabbit as a means for escaping dangers.

IV. *Lesson Outline:*

1. Food
2. Home
3. Enemies
4. Physical characteristics
 - a. legs
 - b. ears
 - c. eyes
 - d. nose
 - e. color
 - f. lip
 - g. cleansing methods

V. *Child's Motive:* (1) To discover the food of rabbit. (2) To learn of the rabbit's home. (3) To discover how he is protected from his enemies. (4) To discover how he cleans himself.

VI. *Subject-matter and Procedure:*

SUBJECT-MATTER

PROCEDURE

The teacher should have a pet rabbit in the room. The children should be allowed to look at the rabbit and play with it before she begins to direct their attention.

1. Food

"Who would like to feed the rabbit? What does it eat? How could we find out? Suppose we give it several different things and watch to see which it eats?

2. Home

"Where do rabbits live? Did you ever find a rabbit's nest or home? What was it like?" If children have never seen a rabbit's nest, the teacher should take them to see one, either a wild or tame rabbit's nest. "What was it lined with? Why do you suppose she lines it with grass and hair? What do you think the coverlet is for?

3. Enemies

"Did you ever see any one kill a rabbit? Does he have other enemies? How do you suppose he ever escapes so many enemies? Let us see if we can find out.

4. Physical characteristics:

- a. legs
- b. ears
- c. eyes
- d. nose
- e. color
- f. lip
- g. cleansing method

"Are the rabbit's legs just alike? What is the difference? What good does it do him to have these long legs? How would that help him escape his enemies?

"Do you see anything that would help him to know when he was in danger? What good are such big ears to him? What else is there about his ears that would help him to detect danger?

"Do you see how his eyes would help him to escape his enemies?

"Look at his nose and tell me what you see. Why do you suppose it moves all the time?" (Scenting dangers.)

"What color is a wild rabbit? Do you see anything in the fields and

woods that is about the same color? Then, how would the rabbit's color help him to escape his enemies?

"Look at his upper lip. Do you see anything peculiar about it? What good do you suppose that it? Would that aid him in getting scent with his nose? Did you ever see a small fruit tree which a rabbit had gnawed? How would this split lip help him in gnawing trees?

"Does the rabbit ever get dirty? How do you suppose he cleans himself? I want you to watch our rabbit and see if you can find out.

"Are you able yet to tell any of the food which he eats?" (Bark and anything eaten since the beginning of the lesson.) "I want you to watch for several days and we will give him different things and find out just what he likes."

Summary: "Now let us see what we have learned. What will you tell your mother about the rabbit?" The teacher helps the children to organize their knowledge and then has different ones suggest what they will tell at home.

REFERENCES

SCHWATKA, Children of the Cold
CAMPBELL, The Story of Little Metsu
CHASE, Children of the Wigwam
DYNES, Socializing the Child
DOPP, The Tree-dwellers
DOPP, The Early Cave-men
BURTON, Story of the Indian of New England

EARLE, Child Life of the Colonial Days

EARLE, Home Life in Colonial Days

ANDREWS, Seven Little Sisters

CARPENTER, Geographical Readers

MACGREGOR, The Story of France Told to Boys and Girls

Curriculum of Horace Mann Elementary School

Course of Study for Elementary Schools, Western Illinois State

Normal

CHAPTER XX

HANDWORK

AIM

The desire to express ideas with any material at hand is instinctive. With the child it tends to find expression in some form of handwork. Considerable attention is being given to this form of work as teachers have realized that the more ways thought can be expressed the clearer it becomes.

The aims in handwork are (1) to help the child gain clear-cut images or thoughts; (2) to train him to additional avenues of expression; (3) To train the will to accomplishment through purposeful effort.

SUBJECT-MATTER

Handwork takes two forms, that of free expression, and that which is directed because it represents some historical or geographical fact. The teacher should ever be on the alert for any indication of a tendency to express thought in either words or by motor activity. Especially should she watch for and encourage any tendency to creative work. Only through creative work does the child attain the best growth. Dynes¹ says, "Every child must do in order to know. . . . Every thought tends to issue in some form of motor activity;

¹Socializing the Child.

and unless the motor phase is developed, the idea does not come to completeness." The child should be constantly encouraged to give expression to his ideas through handwork. The literature studied should furnish a rich field for this free expression type.

There are several different forms of handwork in the primary grades; namely, clay molding, freehand paper cutting, paper folding, spool knitting, mat weaving, and drawing. The selection of the form should be governed by the idea to be expressed.

When using clay the child should learn of the commercial uses to which clay is put; something of its life history, and something of the workers who devote their time to this work. He should recognize these workers as people who are serving mankind. In the study of clay he should be taken for a visit to a clay bank and something of the process of the mining explained to him. Then, by the use of pictures he should be given some idea of the process through which clay is taken in the manufacture of dishes.

When using paper, its use and the source from which the materials come should be discussed.

In the work with the furniture, he should be taught something of the industries by which furniture is made, also something of the source of the material.

In all this work the aim should be to give the child an insight into the world of industry. Through this his sympathies should be broadened and thereby he will be brought into closer touch with the lives of the workmen who make the material things of life.

COURSE OF STUDY

This course of study is offered merely to suggest

the possibilities of handwork as an expression of thought. If the teacher thoroughly understands the idea, she should find a wealth of material to use. The outlines are based on the course of study given in the chapters on Literature, and on History, Nature Study, and Geography.

First Grade

I. *Literature and Reading.* The stories and poems developed in literature and reading are illustrated by clay, paper folding, or paper cutting. The scenes of these stories and poems lend themselves admirably to the sand-table, scrap-book, or poster. The story of "The Wonder Flower" given in Chapter VIII, pages 102 to 103, is used in either of these ways. In the sand-table work Carl, the mother, the home, the mountains, flowers, sheep, river, and trees are duplicated. Carl and the mother are represented by small dolls, the home folded from paper or cardboard, the mountains represented by sand, etc. The type of home and the costumes worn by the people of the country in which Carl lived should be studied. As the story progresses other features are added. The child should be allowed to suggest and work out his own ideas and to plan the arrangement.

A poster or scrap-book is made by cutting the house, mountains, sheep, etc., in silhouette and arranging them so that they will tell the story.

In the literature, the story of the "Three Bears," given in Chapter XIII, pages 167 to 169, may be represented by the sand-table or poster. On the sand-table the woodland scene with the house of the Three Bears should be made. The house is constructed either of cardboard or of three or four small boxes. The house is furnished with fur-

niture made of paper. The three bears are either cut or molded. The little girl is represented by a small doll or clothes pin, or is cut from paper. A poster may also be made similar to that of "The Wonder Flower."

In the poem of the "Two Kittens," given in Chapter XIII, pages 175 to 176, the story is represented by the sand-table or the poster. The house, the kittens, the mouse, the old woman, and the broom are placed on the sand-table; the ground is covered with snow made of cotton; a mat is placed at the door. This is made of paper or from a chain made on a spool knitter.

a. Stories, narrative poems, and rhymes from the readers.

(1) Stories: The Three Pigs, The Three Bears. The Musicians of Bremen, The Hen and the Grain of Wheat, The Fox and the Little Red Hen, Little Red Riding Hood, The Elves and the Shoemaker, and other stories used in literature.

(2) Poems: The Two Kittens, The Swing, Mother Goose Rhymes, and other narrative poems.

II. *History, Geography, and Nature Study.* The work in these subjects will furnish an abundance of material for the handwork. The sand-table is especially valuable in the history work. The poster and the scrap-book are also very helpful in adding interest and motive, and in giving understanding to this work.

The handwork in history will require more direction than that in literature as its purpose is to represent some fact. The child should be helped to gain these images and impressions through pictures, reading, stories, and conversation.

A. *Home*

1. *The Family:*

- a. Freehand cutting: Posters to represent the work of the mother, the father, and the children.
- b. Clay: Mold articles used in the work of the family, as a tub, an iron, a wash-board.
- c. Paper folding: Fold a needle-book, a wash-bench, a work-table.
- d. Scrap-book: Show how to lighten the mother's work by using pictures from magazines in a poster or scrap-book.

2. Love and Politeness:

- a. Freehand paper cutting: A poster showing the different things that can be done for parents.

B. *The Family and the Community*

1. *Family and Community Pleasures:*

- a. Paper cutting: Cut toys for a poster.
- b. Paper folding: Weave paper mats of two colors to make Christmas toys and a cornucopia.
- c. Scrap-book or posters: Cut pictures from magazines showing the different ways to travel; cut pictures of articles used in making a home attractive; make a book or poster of flowers.
- d. Clay: Mold a drinking fountain for birds and pets; mold a flower pot; mold toys.
- e. Sand-table.

(1) Picnic scene: Make a picnic ground on the sand-table using trees, swing made of twine and cardboard, benches, grass, and a spring made of blue paper under glass.

(2) Thanksgiving: On one edge of the table make the ocean, using blue paper under glass; make a forest on the remainder of the table; near the water place an Indian settlement consisting of wigwams and Indians; have a papoose cradle on a tree; in the water place a

canoe; Indian tools may be placed near; on the ocean place the Mayflower; near the water make the Pilgrims' settlement, consisting of log cabins and the Pilgrims; place vegetables near the cabin. A pilgrims' cradle may be used in this scene also.

(3) Christmas: Make a desert with an oasis consisting of palm trees, grass, and water; cut camels with mounted wise men and place on desert; on another part place the village of Bethlehem with the inn and stable; on the hills in the background place the shepherds with their sheep.

(4) Eskimo: Use cotton to represent snow; sprinkle coarse salt or powdered mica over cotton to make it glisten; on the table place house or igloo, dogs and sleds made of bone or paper, white polar bear, Eskimos, ice hole, seal, reindeer.

(5) Washington's Birthday: Represent a Colonial scene with log cabin, fort, flag, and soldiers.

(6) Japanese Scene: Represent house, people in costume, jinriksha, volcano in the background, parasols, fans, kites, cherry trees, dolls.

C. *Supplying Material Needs in the Home*

1. *Food:*

a. Free hand cutting: fruits and vegetables used in a poster.

b. Scrap-book: pictures cut from magazines showing farm life.

c. Clay: mold fruits and vegetables.

d. Sand-table: make a farm scene on the sand-table showing a house, barn, fence, animals, garden, and fields.

2. *Clothing:*

a. Scrap-book of "How We Are Clothed." For

example, have pictures of cotton plant, bale of cotton, cotton mill, store, boy or girl in new dress.

b. Spool knitting: knit a long chain and sew into a cap or a muff.

3. *Shelter:*

a. Scrap-book: "How We are Housed." For example, have pictures of trees, lumber mill, foundation, buckets of paint, samples of wall paper. Make posters showing the work of each workman.

b. Clay: mold brick.

c. Doll House: Secure five small boxes of either cardboard or wood and use two on the top and three below with open sides out; the rooms are as follows: living-room, dining-room, kitchen, and bedrooms; the house is now ready to furnish; the walls are papered or colored with crayon; the rugs for the floor are cut out of magazines or knit with yarn or Germantown wool on a spool knitter; the furniture is folded from paper.

Second Grade

I. *Literature and Reading.*

1. Stories, poems, and events from the readers.

2. Stories: Hansell and Gretel, Ugly Duckling, Beauty and Beast, Cinderella, Robinson Crusoe, Aladdin's Lamp, and other stories used in literature.

2. Poems: Hiawatha, Foreign Lands, The Spider and the Fly, and other narrative and descriptive poems.

II. *History, Geography, and Nature Study.*

1. *Present Day Problems:*

a. Paper-folding: The pupils of this grade will be interested in furnishing a doll house; encourage them to work out original designs; work out the pieces given in the first grade and add some additional pieces.

b. Paper Cutting: posters of vegetables, fruits; flowers, birds, trees, animals.

c. Clay: mold fruits and vegetables.

d. Scrap-book: Use magazine pictures to illustrate the life story of coal or of an article of furniture; illustrate the life of the present day by showing the house, people, food, clothing, pleasures, schools, etc.

2. *Primitive Day Problems:*

a. Sand-table: Tree-dwellers. Study the type of house from the picture as to its shape and material; then duplicate this as nearly as possible in materials; place wild animals in the scene; mold Tree-dwellers first in clay, then when the general characteristics of the features have been worked out mold in a cornstarch and salt compound colored properly with crepe paper or paint. If this is not practicable use pictures of the people; mold implements and tools of clay.

b. Represents the country of the Cave-men in the same way as for the Tree-dwellers. Close study of pictures will be necessary if the child is to gain the correct idea of these historical facts.

c. Weaving: Mat weaving to represent the weaving of the baskets of the Cave-women.

d. Paper tearing or cutting: Animals that lived in caves and woods.

e. Clay: Mold gourds used for bowls, tools and implements, baskets, a cave, and a mammoth.

Additional suggestions for things to do will be found in Katherine Dopps' books on the Cave-men and Tree-dwellers.

3. *Colonial Day Problems:*

a. Scrap-book and posters: Make books or posters showing Colonial life and Indian life.

- b. Clay: Mold bows and arrows, flint, canoe, papoose cradle.
- c. Sand-tables: Work out a table similar to the Thanksgiving and Washington Birthday sand-tables in the first grade.

Third Grade

I. *Literature and Reading.*

- 1. Stories, poems, and informational lessons from the readers.

- a. Stories: Robinson Crusoe, The Wonderful Lamp, Rip Van Winkle, Dog of Flanders, Alice in Wonderland, The Hero of Haarlim, and other stories used in the literature work.

- b. Poems: Hiawatha, and other descriptive and narrative poems.

II. *History, Geography, and Nature Study.*

The work in this grade will be largely that of working out sand-table projects. A sand-table should be worked out for each topic suggested in Chapter XVIII. The teacher should lead the child to make a close study of pictures and of the reading matter in order to decide on the objects to be used, and on the construction and arrangement of these objects.

Scrap-books and posters may also be made to represent trips to the different countries; for example, a train to carry the child to New York; views of New York; a steamship, etc. Many suggestions for activities and handwork will be found in "Socializing the Child" by Dynes.

METHOD

The teacher should bear in mind the important fact that before an idea can be expressed by handwork, there

must be a clear image of the thing to be made. In the story of the "Three Bears" the child must have a definite mental image of a bear before he can mold or cut one. These mental images may be formed by the use of natural objects, which is the best means of creating them, or by the use of pictures or drawings.

Another important principle for the teacher to recognize is that the child is not interested primarily in the doing of handwork, but his interest is in what he is to do with the finished product. It may be a part of a sand-table scene, a poster, a scrap-book, or a gift for some one. The recognition of this principle will prevent aimless and oftentimes careless work on the part of the child. The handwork should always present something in the way of a problem, but it should be one which he can solve without too much direction or help. In all the work the teacher should make sure that the child has the correct image and then leave him to work out the idea in his own way. Even if the result is not so good, the child has made a gain in the way of working out his own problems.

The teacher should encourage and praise all faithful and purposeful effort, and especially commend any sign of creative work. When the child is working out a story of a problem he should be held to that task and not permitted to make objects foreign to the matter in hand.

Posters. The idea of the poster is to express a thought or story by means of freehand paper cutting. This paper cutting should be freehand, else its value is in a large measure lost. Only silhouette cutting should be attempted. The teacher should be sure that the child has the correct image before he begins to cut. He should begin with

very simple objects such as fruit or a ball. After the object is cut it should be arranged and pasted on a large piece of paper of darker color. The cuttings should be arranged so they will tell the story represented.

Scrap-books. To make a scrap-book the child may fold together several large sheets of paper and fasten in the fold. A picture or a suitable title is placed on the outside sheet. Pictures are cut, arranged, and pasted so as to tell the story suggested on the outside.

Doll House. A doll house may be made in the following manner: Several boxes about eighteen inches square and several inches deep are secured. These are arranged with the open sides out so as to form two or three rooms below and two above. An extra piece of cardboard should be placed in roof fashion over the top; windows and doors may be cut in each room; the walls may be finished by papering or by coloring with crayons; the color schemes should be carefully watched. Each child should be encouraged to have a doll house at home. Considerable pleasure and profit should result from the furnishing of this house. The different articles of furniture, the relative size of each piece, the placing of the furniture, etc., will have to be decided. The proper care of rooms, etc., will furnish material for the further development of the child. He should first be allowed to try to make the different articles of furniture. If he succeeds he should be praised. Should he find the task too difficult, he is then ready for simple directions from the teacher.

Sand-table. The sand-table is a very necessary article in the handwork course. One can easily be made according to the following directions: a shallow box, any size desired (the bigger the better), is placed on legs, lined

with paper and filled with the cleanest sand procurable.

In working out the stories on the sand-table the child should be allowed the privilege of expressing his own ideas as to the objects used and as to the arrangement of these objects. In history or geography the teacher will have to guide him in the selection and arrangement of the objects so as really to represent the historical or geographical scene. This may be done by guiding him in making a close study of pictures, by careful reading, or by listening to readings which describe the scenes. He should be trained to verify his judgments and opinions by reference to pictures and books. The teacher should guard against a false idea on the part of the child as to size and distance on the sand-table. He should be taught that a sand-table does not duplicate the scene but simply represents it in a very miniature way. This idea can best be developed by making the first table to represent a scene with which he is thoroughly familiar; for example, the schoolhouse and grounds. In this way he will see how much smaller the sand-table is than the real thing.

Water is represented by blue paper under glass; snow is represented by cotton with coarse salt or powdered mica sprinkled over it; people are represented by small dolls, clothespins, miniature people cut out of paper, or by pictures; trees are represented by twigs and small branches from trees; other objects may be molded in clay, cut out of paper, or made by paper folding.

Materials. If money is available the teacher can procure construction paper, scissors, clay, crayons, paste, and all other supplies from A. Flanagan Company, Chicago. Catalogue giving complete descriptions, prices, etc., will be sent without charge upon request.

1. The construction paper comes in many different

shades and is very desirable from the artistic standpoint. However, if money is not available the teacher can carry forward this work with material which she can procure with little expense. For paper-folding and paper-cutting newspaper, wrapping paper, and old magazines may be used.

2. *Scissors:* Usually the teacher can get each child to buy a pair of small scissors (costing only 10 or 15 cents). If it is not practicable to have scissors, the object may be torn by placing the thumbs and first fingers very close together and tearing only a small bit at a time.

3. *Clay:* Very often clay suitable for this work will be found in clay banks near the school. However, as this must be screened, sifted, washed, and properly mixed with water to be of service, the teacher is advised to buy a pound or two of the clay which never hardens and can be used over and over.

When an especially good piece of work is to be kept for a permanent exhibit, it may be remolded, using the following preparation: 1 part salt, 2 parts cornstarch. Mix to a paste with boiling water. Set on the stove and boil until thick, stirring constantly. This will not harden for two or three days.

4. *Paste:* Paste may be purchased in quantity from A. Flanagan Company, Chicago, or the teacher can make her own paste according to the following formula: Mix flour and water to form a thick paste. Add enough alum to keep from souring. Cook until thick, stirring to prevent scorching. This will keep for several days.

5. *Paper Cutter:* A good paper cutter will be a great asset, not only in this work, but in the many other activities of the school. It will be best to invest in a good standard cutter rather than one of inferior quality.

6. *Pantagraph*: A pantagraph for enlarging or decreasing the size of pictures can be used to an advantage in this work.

7. *Hectograph*: In some of the sand-table projects, it will be necessary to have outline pictures for the child to cut by. These should be used only when the free-hand cutting is beyond his ability. These pictures can be prepared in a very short time with a hectograph. A hectograph may be purchased from A. Flanagan Company, Chicago, or the teacher can make one according to the following directions: Gelatine 4 ounces, glycerine 24 ounces or $1\frac{1}{4}$ pints; soak gelatine 12 hours in just enough water to cover; pour off water and cook to 200° Fahrenheit; place a shallow pan in a level place and pour in the mixture; remove all bubbles with a blotter; allow the solution to harden. Copying ink may be purchased from the same company, or made from the following formula:

Duplicator Ink: 1 ounce dark green aniline or 1 ounce methyl violet aniline; 1 ounce glycerine, 10 ounces rainwater.

LESSON PLANS

In the lesson in handwork the teacher should strive to develop the child's initiative and individuality. Directions or set ways of making an object are avoided as much as possible. She should endeavor to give him a clear mental image of the problem in hand and then encourage him to work out the problem in his own way. After he has a clear idea of a bear in connection with the story of "The Three Bears," he is given clay and is told to make a bear, or he is given paper, scissors, and paste and is told to make the big bear's chair. At first

his efforts are very crude, but after a few weeks of this work it is marvelous what he is able to do. In this work he is developing not only self-reliance, but the power of expressing his ideas in a clear, forceful style. After he has done his best and fails, the teacher may give him the directions for working out the problems. However, this should not be done until the child feels the need for it.

Pictures of the models and directions for making them will be found in the following books:

- Dyer, The Cut Out Book.
- Goodrich, With Scissors and Paste.
- Bowker, Busy Hands Construction Work.
- Latter, How to Teach Paper-Folding.
- McGaw, Construction Work For Rural and Elementary Schools.
- Schneidewerndt, How to Make Baskets.
(All the above published by A. Flanagan Company, Chicago).
- Layard and Brackenfeld, Primary Manual Work.
(Milton Bradley Co., New York.)
- McCormack, Spool Knitting. (A. S. Barnes & Co., New York.)
- Seegmiller, Primary Handwork. (Atkinson, Mentzer & Co., Chicago.)

REFERENCES

- LAYARD AND BRACKENFELD, Primary Manual Work
- DYNES, Socializing the Child
- SEEGMILLER, Primary Handwork
- Curriculum of the Horace Mann Elementary School
- DOPP, The Tree-dwellers, and The Early Cave-men

CHAPTER XXI

MUSIC

AIM

One of the most beautiful modes of expressing thought is through music. Some of the most beautiful thoughts of the world are expressed in this way. Music arouses feeling and emotion as does no other form of expression. It has the power of inspiring man to noble acts of patriotism, heroism, altruism, self-sacrifice, sympathy, and tenderness; it has power to move him to tears, to a state of despondency or joy; it has the power to soothe his nerves, to quell impatience and angry passion, and to make him forget worry. It makes life more beautiful in many ways.

The kind of music which a person enjoys and which will influence him depends upon his experience and his training in interpretation of music. The music of the Chinese does not carry the same message to an American that it does to the Chinaman. Neither does the classic music carry a message to the man not musically educated.

If the child is to be fully developed, he should not be denied the pleasure which comes through this very important mode of expression. It is the opinion of experienced music teachers that practically every one could be trained to sing if this training were begun in the early years. Be that as it may, there is no doubt that

How to Teach Primary Grades

Appreciation of good music is a matter of training—a training which is possible to practically every individual. As in literature, this training should begin in the early, formative years.

The specific purpose in the early years is to develop the child's sense for rhythm, cultivate his sense for harmony and melody through the use of song and musical instrument, and to train him to express himself through music.

SUBJECT-MATTER

As in language music has its beginning in imitation, therefore this is the natural way to begin training in musical expression inasmuch as tone element is learned only through the ear.

The first step is tone matching; for example, bird

calls. The
teacher sings



and the child

"Cuck-oo"

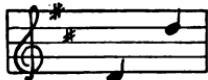
answers



"Cuck-oo"

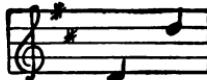
The call of the
whip-poor-will,

bob-white, and chic-a-dee, also are used. Tone matching is also developed through the roll-call. The teacher sings



"Mary"

and the child
answers by singing



"I'm here"

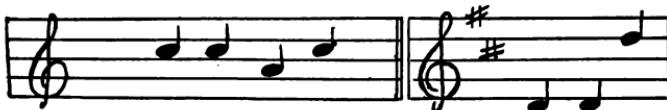
This is followed by the rote song which is used to give the child an easy means of expressing himself musically; as the means of developing a strong feeling for rhythm and tune; and to train the mind to recognize and to think melody. Practically all the work of these early years is based on the rote song.

The morning greeting may be used in these exercises in tone matching.



(Teacher) "How do you do?" (Child) "I'm well, thank you."

A game of echo in which the teacher calls, "I'm coming," or sings, "Throw the ball," is excellent. The teacher gives the call and the child echoes.



"I am coming."

"Throw the ball."

The greatest of care should be exercised in the selection of the rote song. It should be rhythmic and melodious, not too low or too high, and the word-content should be interesting and within the child's experience. The opportunities offered by nature study, special days, and holidays should be taken advantage of as this will add interest and motive to the work. A correlation with literature, reading, and social life should give purpose and meaning to the work.

COURSE OF STUDY

This course of study is offered as a suggestion to the teacher who has had no musical training. Consequently it is very simple in form and does not contain many of the features which would be in the course of study of a trained teacher.

First, Second, and Third Grades

I. Tone matching through bird calls, roll call, morning greeting, and a game of echo. Continue until practically all the class can respond accurately.

II. Rote songs; improvement in tone and pronunciation through efforts to express the thought of the song.

III. Rote songs continued as a basis of further work in melody, rhythm, ear training, self-expression, and interpretation.

Material for rote songs may be found in any of the following books:

Small Songs for Small Singers, *Neidlinger* (G. Schirmer, New York); Children's Singing Games, *Hofer* (A. Flanagan Co., Chicago); First Year Music, *Dann* (American Book Co., New York); Songs of the Child's World, Nos. 1 and 2, *Gaynor* (John Church Co.); Holiday Songs and Games, *Poulsson*; Nature Study for Children, *Knowlton* (Milton Bradley, Atlanta, Ga.); Song Primer, Teacher's Book, *Bentley*; Song Series Book I, *Bentley*; (A. S. Barnes); Music Course, Book I, *Eleanor Smith* (Silver Burdett); Lyric Music Primer, *Foreman*; Modern Music Primer, *Eleanor Smith* (Silver Burdett); Songs of Life and Nature, *Smith* (Silver Burdett); Songs for Little Children, *Smith* (Milton Bradley); Mother Goose Set to Music, *Elliot* (McLaughlin); Edu-

cational Music Series, Teacher's Edition (Ginn & Co.); The Public School Song Book, *Schoen and Gilbreath* (A. S. Barnes Co., New York).

METHOD

As previously suggested, the work in music begins with the exercises in tone matching. These exercises should be continued until the child is rather proficient in his response to any tone.

Very often a child will be found to be a monotone; that is, he does not seem to have the ability to vary his tone, and it is pitched on a low key. This child should have extra work in tone matching until he learns to place his tones properly. In the work with the rote songs, the teacher should be careful to avoid calling attention to this defect and treat the child exactly as though his tones were normal.

Rhythm may be developed by clapping, marking, or beating time as a familiar rote song is sung or played, or through the singing game, folk dance, action song, or march.

The child is trained in the ability to think melody by having the teacher hum or play a familiar song and then allowing him to name it.

In the work of each grade the emphasis should fall on the interpretation and expression of the thought with only enough technique to enable the child to read and to interpret simple music.

It is not necessary that the teacher be either a trained musician or a good vocalist in order to teach music. These are valuable assets but not indispensable. However, an appreciation of good music is an essential qual-

ification for the successful teaching of music. If the teacher lacks this, she should strive to awaken and to cultivate this power. If this is impossible the probability is that she has missed her calling and should not attempt to teach the little child.

Many teachers have successfully taught music without either the ability to play or to sing. There are two or three ways in which this may be done. First, very successful work may be done by using a phonograph. Any good phonograph company should be able to furnish a list of records containing a number of appropriate rote songs, singing games, and folk dances. Second, the class usually has one or more pupils who can lead in the singing. It is an easy matter to find some one who will teach these children the songs. Or there will probably be a pupil from one of the more advanced grades who will be glad to assist in this work. Very often some patron or friend of the school will come once or twice a week and teach the songs. Where there are other teachers in the school, a teacher who can sing will often exchange work with the teacher who cannot. Suffice it to say, "Where there's a will, there's a way."

Though it is not essential for the teacher to have a technical knowledge of music or of the voice, it is essential that she be able to distinguish between good and bad tone production. A child's voice is naturally very light and should be used only in producing a light, soft, sweet tone. It will take the utmost vigilance to prevent him from using a coarse, harsh, shouting tone in singing. Should this continue it will often strain and injure the voice beyond repair. Individual work in music should be stressed if the child is to develop to the extent of his ability.

LESSON PLANS

The presentation of the rote song is an important part of the work as much depends upon the teacher's manner of developing an interest in it. Since the lesson in music is the same type as that in literature, it should be developed in a similar manner. Suggestions for these lessons were given in Chapter XIII, pages 164 to 166 and pages 173 to 177. The following outline plan for teaching a song is in keeping with the method used by many expert teachers of music.

1. The word-content is presented to the child in song and its meaning developed as a basis for a true interpretation of the melody.

2. The teacher sings the song a number of times in order that the child may gain a clear conception of it.

3. The first phrase is then sung by the teacher several times, then imitated by the class as a whole and by individual children. It is then linked by the teacher with the whole song. The second phrase is learned in the same way. Then the first and second phrases are sung together, and then the teacher finishes the entire song. She should continue by phrases, constantly linking them together and with the entire song.

Another method often used in the third step is for the teacher to sing the song as a whole allowing the child to supply the last syllable or word of each phrase. She then allows him to supply two words, etc. Or the teacher may sing the entire song and allow the children to sing "la; la!" After the tune is familiar he sings the words.

ILLUSTRATIVE LESSON**First Grade****I. *Subject:* Music.**

II. *Topic:* Tone matching.

III. *Teacher's Motive:* To train the child's ear to tone values.

IV. *Child's Motive:* To answer the bird call given by the teacher.

V. *Subject-matter and Procedure:*

SUBJECT-MATTER



"Cuck-oo"



"Bob-White"



"Chick-a-dee"



"Whip-poor-will"

PROCEDURE

"Do you boys and girls like birds? Have you heard them sing? How many have heard a cuckoo sing? What does he say? Yes, he says his name. Listen to the way he says it." The teacher sings "cuck-oo." "I want you to play that you are a baby cuckoo and when I sing *cuckoo* I want you to answer by singing *cuckoo* just as I do." In order to help the children gain self-confidence a little concert work is permissible, but the major part of the work should be individual work. The other bird calls are introduced in the same manner.

First Grade. (The same general plan is used in the second and third grades.)

I. *Subject:* Music.

II. *Topic*: Rote song, "The Chicken" from Small Songs for Small Singers, *Neidlinger*.

III. *Teacher's Motive*: To guide the child in the proper interpretation of the song.

IV. *Child's Motive*: (1) To discover the thought of the song. (2) To learn the song to sing to his mother.

V. *Subject-matter and Procedure*:

SUBJECT-MATTER

"I think when a little
chicken drinks
He takes the water in
his bill,
And then he holds his
head way up
So the water can run
down hill."

•

I think when a little
chicken drinks

PROCEDURE

"How many of you have chickens? Do you have any baby chickens? Did you ever watch them get a drink? Show me how they drink. I know a little song about a chicken drinking. Listen to how it says the little chicken drinks." The teacher sings the song. "How did it say he takes the water? Then what does he do? How does he hold his head?

"Let me sing it again and see if you think it is a pretty song." She sings the song again. "Did you like it? This time as I sing it I want Mary to come and pretend that she is a little chicken." She again sings the song. "John may come." The teacher continues singing it over a number of times in order to give the children a clear concept of it.

"I want you to learn this song so you can sing it for your mother. Let me sing just that phrase. Listen again and then I am going to let you sing it for me." After the teacher sings this the whole class is allowed to sing it two or three times. She then calls on individual children. "Let us all sing this phrase together

He takes the water in
his bill.

and then I will finish the entire song." The teacher sings as suggested. "Let me sing the song again and see how the phrase 'He takes the water in his bill' sounds." She sings the entire song. "Let me sing just that phrase." The teacher sings the phrase. "This time I want you to sing it." She proceeds as in the first phrase. "Let us sing both phrases together, then I will finish the song." She proceeds in like manner until the entire song is learned.

REFERENCES

FARNSWORTH, Education Through Music
DANN, First Year Music
WESTERN ILLINOIS STATE NORMAL SCHOOL, Course of Study for
the Elementary School
The Speyer School Curriculum, Teachers College, Columbia
University
SCHOEN, Music in the Rural School and Community

CHAPTER XXII

SEAT WORK

AIM

In the schoolroom of more than one grade or of more than one section of a grade, the teacher works with the child for only a part of the time. For the remainder of the time he must engage in some form of unsupervised activity. That he will engage in some form of activity is a well-known psychological fact, as nature has endowed him with an instinct for activity. The teacher's problem is to supply him with employment which is worth while—that in which his mental powers will be active and that which will develop habits of independent thinking and study, concentrated attention, tenacity of purpose, and healthy activity.

SUBJECT-MATTER AND METHOD

There are many forms of seat work which will prove attractive, interesting, and instructive. Probably the most valuable of these is some form of handwork such as clay modeling, paper folding, cutting and pasting, color-work, and drawing. Other forms are colored pegs and peg boards, colored sticks, cut-up pictures, interesting pictures with words for sentence forming, corn, peas, blocks, empty spools, etc. The catalogue of any good supply-house will furnish many suggestions for different

types of seat-work. Other valuable sources of suggestions for types of seat-work will be found in educational journals, and children's magazines.

To give the child a book to study for any length of time means asking an impossibility of him, and develops habits of listlessness and inattention which will be hard to overcome. Assigning written tasks results in cramped fingers, incorrect habits of writing, and carelessness.

That the best results may be secured, seat-work should possess the following characteristics:

1. When possible it should be further development or application of some previous lesson, as "I want you to tell the story of the reading lesson with the clay."

2. It should consist of an unsolved problem which is of interest to the child, as "Draw a picture of the house of 'The Three Bears' just as you think it looked and put in the furniture which you think it had in it." After he has solved this problem to his satisfaction, there is no problem and very little interest or value in continuing to do it. However, this skill may be utilized as the means toward the solving of a new problem. For instance, "How would you like to tell the story of 'The Three Bears' by picture? What picture shall we have to draw?" Among these pictures will be the house and furniture.

3. It should be of such a nature that it will hold the child's attention and interest until the problem is solved. For example, "Did you ever go to a circus? What animals did you see? Where were the animals? How would you like to make a poster showing the animals you saw? I have a great number of magazine pictures of animals and of tents here. Let us see who can make a nice poster. Today we will see how many

animals you can cut out in fifteen minutes." This will probably take a number of seat-work periods to finish. The child should be encouraged to bring other pictures from home. Outline pictures which have been made on the hectograph may be used or he may trace around cardboard patterns of animals.

4. It should not require too long a period of attention, as the child does not give attention to one thing however interesting for any great length of time. This may be illustrated by the above example where only fifteen minutes are used in one form of seat-work. Seat-work should always be of such a nature that it can be entirely finished in the time allotted or that a definite part can be finished. Observation and experience will soon show the teacher the amount of time which should be given to the different forms of seat-work.

The problem is to select types of seat-work which are interesting, attractive, and instructive. Following are some suggestions which will fulfill these requirements if used wisely and understandingly. When seat-work is given the directions should be clear and definite.

1. Tell the story of the reading lesson by clay modeling. In the story of "The Little Red Hen," Chapter V, pages 58 and 59, the child could mold a grain of wheat, a hen, a cat, a rat, a pig, and a loaf of bread.

2. Tell the story of the reading or language lesson by free-hand paper cutting. These are to be made into a poster which will tell the story.

3. Cut and arrange magazine or outline pictures to tell the story.

4. Draw and color pictures which will tell the story.

5. Tell the story on the sand-table by planning and making necessary articles.

6. Illustrate rhymes and poems as in suggestions one, two, three, four, and five.
7. Illustrate by one of the above forms the part of the poem or story which he likes best.
8. Have the child illustrate with pencil, colored crayon, clay, or free-hand cutting something that happened on the playground or on the way to school. Sentences may be written about this event.
9. Have pictures with words to match and have him place the words on the proper picture.
10. Give him a picture with the list of necessary words for telling the story. He should form sentences about it with the word card.
11. Sentence building may be given using cards with the written or printed words. Place a model on the board or have child use a model from the book.
12. Give each child a pair of scissors, some paper, and a list of name words. Have him cut a free-hand picture of the word and place the proper word on this picture.
13. Write a simple question on the board and ask the child to answer with drawings or word cards.
14. Place a simple direction on the board or on a card which tells the child to make something; for example, "Cut the picture of a boy and his kite."
15. Give the child a copy of a simple rhyme or story and allow him to illustrate.
16. Give him the copy of a simple rhyme or story and words for building this rhyme or story and have him build it.
17. Give him the words for building a very familiar rhyme or story and have him build it without a copy.
18. Many interesting booklets or scrap-books may be

made by the cutting and pasting of magazine pictures or outline pictures made from patterns or by the hectograph. Paste a picture on the outside of the book with proper explanatory wording. For example, make a book representing the child's home. Let him find the picture of a house which is the most like his own. The wording "*MY HOME*" should be just below the picture. A page represents a room in the home. He is to cut, arrange, and paste the furniture for each room.

Booklets of pets, circus animals, farm animals, farm tools, fall flowers, fall birds, leaves, "How We Are Clothed," "How We Are Fed," "How We Keep Warm," "How We Ride," and Noah's Ark, may be made.

The child will enjoy furnishing a real doll house made of boxes. (For suggestions see Chapter XX, page 280.) This may be either a class or an individual problem.

Spool knitting is an interesting activity. The chain is to be utilized in some way.

One of the teacher's problems will be to acquire enough seat-work material which is worth while without too great an outlay of money. If she will secure the interest of the child in the problem he will bring many things which may be utilized, such as newspapers, magazines, wrapping paper, string, spools, tablet backs, corn, acorns, etc. Often the local printing office will allow the teacher to take strips of refuse paper, or she may buy "news print" at a reasonable rate. Colored paper may also be purchased from the printer.

Often the teacher can raise money for the purchase of materials by a little entertainment. Other suggestions as to material and their use will be found in Chapter XX, pages 281 to 283.

The care of this seat-work material is an important

part of the program. If possible, the teacher should have a set of shelves, in which is placed the different materials in systematic order in boxes which are plainly marked on the ends. Monitors may be selected who will care for this material in an orderly way. These same monitors may attend to the distribution and the collection of this material and thus relieve the teacher of this mechanical part of the work.

She should plan for her seat-work periods as carefully as for the regular lessons. Her daily program should show exactly what the child is to do for every period of the day. Not only should she know what he is to do but she should have all the material ready and arranged in systematic order so that no unnecessary time or energy may be expended.

All seat-work should be carefully inspected as an encouragement to the child and to prevent the formation of habits of carelessness and idleness.

REFERENCES

DUNN, *Educative Seat Work*

HOLTON, *Games, Seat Work, and Sense Training*, A. Flanagan Company, Chicago

CHAPTER XXIII

OPENING EXERCISES

The first few minutes of the morning furnish the key-note to the day. The child often comes to school cross and irritable due to any one of many possible causes. It may be that the breakfast was insufficient, poorly selected, or poorly prepared. It may be that he has not had a sufficient amount of sleep or that he has received a severe though merited reproof from his parents. Bodily illness will also often cause irritability. Suffice it to say that whatever the cause, it is often possible to turn what would otherwise prove the proverbial "Blue Monday" into a day of joy and happiness by a wise use of these first few minutes.

One of the most important factors in a happy school-room is the teacher. It should not be necessary to suggest to her that a smiling, happy face is perhaps the most essential element in the personality of the successful teacher. Not only should her face be bright and happy, but her personal appearance should be as attractive as possible. This does not mean expensive wearing apparel, but that which is well selected as to quality, color, and style. The hair should be arranged neatly and attractively.

Another important factor is the appearance of the room. The teacher should see that it is properly cleaned, lighted, heated, and ventilated. She should make it as

attractive as possible by a wise use of flowers, pictures, bookcases, curtains, and the work of the children. She should avoid giving the room a cluttered appearance by the too promiscuous use of these articles. The table or desk should be made attractive with a cloth or scarf and a flower vase.

As each child enters the room he should be greeted with a cheerful good-morning (with perhaps an additional word of greeting). If the child arrives before the opening hour, he should be given some quiet, though interesting, form of activity until the opening hour. If he is allowed to romp and engage in noisy talking while in the schoolroom, it not only makes a bad beginning for the day but helps to create a harmful schoolroom atmosphere.

SUBJECT-MATTER

The morning exercises may consist of Bible stories, Bible verses, psalms, prayer, poems, stories, songs, lessons in ethics, hygiene, and sanitation.

Bible Stories. Unless there is a state law prohibiting the use of the Bible, this should form a regular part of the morning exercises. In the primary grades it should take the form of Bible stories, simple verses, and psalms. These stories may be found in books of Bible stories for children. Probably a better source will be the Teacher's book for the Beginners and the Primary Department of a Graded Sunday School. These are well adapted to the understanding of the little child and are simple and interesting. In connection with these books, pictures which illustrate these stories may be procured. These will add much to the interest. These books and pictures

may be bought from the publishing house of any of the leading religious denominations.

Prayer. If not prohibited by a state law, the prayer should also form a regular part of the morning exercise. Should there be a law prohibiting it, the prayer may be used in the form of a song. The following prayer is very appropriate for use with the little child:

"Our Father, we thank Thee for the night,
And for the morning light,
For food and rest and tender care,
And all that makes the world so fair.
Help us to do the things we should,
To be to others kind and good.
In all we do, in all we say in work or play,
Make us more loving every day.—Amen."

If the teacher prefers she may use the Lord's prayer.

Songs. The singing of a bright, happy song makes a good beginning for a day inasmuch as it will often drive away the feeling of impatience or worry. It will also help the teacher and the children to take up the schoolroom activities with a better mental attitude. These songs may be either secular or religious in form. For the religious songs, help may again be found in the literature of the Beginners or Primary Department of a Graded Sunday School. These songs are simple, and interesting and especially adapted to the comprehension of the small child. "Songs for Little Children," by Francis W. Danielson, published by The Pilgrim Press, Boston, contains suitable songs both secular and religious in content.

If a regular music period is provided in the daily schedule, the songs taught in this period are utilized in the morning exercises. If there is no music period, the song should be taught as a part of these exercises.

Ethics. Little talks, stories, and exercises to help establish the social habits of thoughtfulness, helpfulness, courtesy, sympathy, truthfulness, etc., may form an important part of the morning exercise. These should not be "preachy" in character and should be used in a natural, interesting way. This should be followed up through the day by suggestions and by praise of any action which is of this character. Many suggestions for these talks, stories, and exercises should be found in primary magazines of education, children's magazines, and children's books.

Hygiene and Sanitation. This morning period offers an excellent opportunity for giving the child a knowledge of the laws of health and of sanitation. These may be presented through natural and interesting little stories, talks, and exercises. Material for these exercises should be found in primary magazines of education, physical culture magazines and books on hygiene and sanitation.

Poems and Stories. The morning exercises also offer an excellent opportunity for the reciting of the poems and the reproduction of the stories learned in the literature lessons. This furnishes motive for the learning of these poems and stories and gives additional practice in appearing before an audience.



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